IVAN M. JOHNSTON'S STUDIES IN THE BORAGINACEAE

Tournefortia delicatula J. S. Miller. Reprinted from *Novon* 7 (3): 266. 1997.

Ivan M. Johnston's Studies in the Boraginaceae

James S. Miller
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& Erin Rempala

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Preface

During his 38-year career at Harvard University, Ivan Murray Johnston focused his research on the systematics of Boraginaceae, and his results were largely published in a series of 31 journal articles entitled "Studies in the Boraginaceae." These appeared as a numbered series between 1923 and 1961, with subtitles giving some indication of the subject matter presented, yet all but one lacked an index to the taxa that were treated. Cumulatively they represent an enormous contribution to our present understanding of the taxonomy of the Boraginaceae, but the format in which they were published makes it difficult to access the information easily. The present contribution is an index to the botanical names in Johnston's "Studies in the Boraginaceae." Introductory material discusses Johnston's career, including his other research interests, but this volume is not intended to be a complete history of his life and accomplishments. An explanation of how the index was prepared, a complete list of all of Johnston's research publications, and indices to the type specimens of names published by Johnston are also provided.

This project grew out of a personal effort by the first author to index Johnston's publications as a tool for further monographic studies on the Boraginaceae. The suggestion to revise and publish this came from many people, but Joan Nowicke, Michael Frohlich, and Harald Riedl were especially encouraging. Checking the numerous references, standardizing abbreviations for authorities, and assembling information about Johnston's life, the names he published, and the types of the names that he published were time-consuming and often tedious tasks that could not have been completed without the two coauthors. Sue Taylor helped proofread and check all of the index entries and assembled the appendices cataloging Johnston's names, types, and publications, and Erin Rempala did the majority of the work standardizing author citations, many of which required consulting the original literature to resolve ambiguous citations. Several other colleagues at the Missouri Botanical Garden assisted either in finding or photocopying additional research materials. The authors would like to especially thank Roy Cummings and Heidi Schmidt for their assistance.

Emily Wood and the staff of the Harvard University Botanical Libraries, particularly Sheila Conner of the Arnold Arboretum, helped find Johnston's correspondence that remains at Harvard. Following his death, Johnston's research materials were destined for the Texas Research Foundation, which was dissolved in 1972. While some available correspondence provides a bit of information, the final disposition of Johnston's correspondence and field books remains a mystery. John Kirkpatrick, of the Harry Ransom Humanities Research Center at the University of Texas at Austin, helped locate Johnston's correspondence with Donovan Correll. Billie Turner willingly provided access to his personal correspondence with Johnston. Barney Lipscomb provided assistance at BRIT, and Larry Sall, of the University of Texas at Dallas, helped confirm that none of Johnston's material had ended up there with Lundell. Finally, this whole project benefited tremendously from assistance from the library staff at the Missouri Botanical Garden. Martha Riley and Doug Holland helped find archival materials. Teri-Ann Wallace helped obtain materials through inter-library loan, and Linda Oestry helped locate necessary references. As the project was concluded, Joseph Ewan discussed much of the history surrounding Johnston's career and helped place his actions in the context of the botanical community at the time. His advice added greatly to the work.

INTRODUCTION

No single botanist has had as great an impact on our present state of knowledge of the systematics of Boraginaceae as Ivan Murray Johnston. The family was his primary research interest during his 38-year career at Harvard University. In addition to his contributions to our present understanding of relationships and classification, he published 215 new names in the family, accounting for about 10% of the presently recognized species. Only the combined efforts of Augustin Pyramus and Alphonso de Candolle in the *Prodromus Systematis Naturalis Regni Vegetabilis* (de Candolle, 1845, 1846), where they published more than 350 species and nearly 500 new taxa of Boraginaceae, could attempt to claim a larger number, but their work is much less detailed, a much smaller percentage of their species are accepted by modern authors, and their classification was much less refined than that of Johnston.

Although Johnston focused intensively on Boraginaceae, his interests were broad and covered many subjects, perhaps best described in his own words in a letter dated 10 June 1957 to an old friend in California:

> "I am, as you may know, a systematic botanist with a monographic interest in the family Boraginaceae, and a general interest in plants of Latin America. Before the war I was working on the flora of the intermontane states of northern Mexico (those south of Texas and New Mexico) and since then have been working in Panama and for a time of the flora of southeastern Asia. My love of desert plants and floras still persists but of late I seem to have been occupied most of the time with the analysis of tropical forests for the Army."

While a great deal can be learned of Johnston's research interests through his publications, the more personal side of his life is a bit more difficult to follow. His last 10 years at Harvard were not happy ones, as he became embittered over the merging of the Arnold Arboretum and Gray Herbarium libraries and herbaria. Shortly before his death, he had decided to move to the Texas Research Foundation. His science library, presumably containing the major part of his correspondence and his field books, was to become part of the library of the Texas Research Foundation (Correll, 1961). The foundation closed on the first of September 1972 and the herbarium and library were transferred to the University of Texas, Austin (Turner, 1973), but Johnston's materials either never made it to the foundation or they were separated and lost when the foundation was dissolved.

IVAN MURRAY JOHNSTON'S RESEARCH CAREER

Ivan Murray Johnston was born on February 28, 1898, in Los Angeles, California, where his parents, William Murray Johnston, a locally prominent physician, and Etta Farnsworth Johnston, had emigrated in 1895. He attended public school in Los Angeles and began collecting plants in southern California as a high school student. He roamed the area where he lived and collected along streams and the coast. He later wrote to botanist and botanical historian Joseph Ewan that "I was born on Pico Street and used to go swimming just beyond Western Ave. not to mention stealing watermelons near Brea pits." His affection for the area lasted his entire life, and he later lamented the unique biological environments that had been destroyed by development in the Los Angles area. His specimens were pressed and labeled with a great deal of care, and this interest in specimen quality was later a frequent topic in his correspondence and publications. He began corresponding with botanists at nearby universities, and also in other parts of the country, before he began college. Much of this correspondence would result in life-long professional relationships.

In 1916, Johnston began his undergraduate studies at Pomona College, in Claremont, California, where he studied botany with Philip Munz and began building his relationships with the major figures in botanical research in California at the time (Munz, 1961). He transferred to the University of

California at Berkeley in 1918 and received his A.B. degree with Highest Honors in Botany in 1920. He continued his studies at Berkeley and received his M.A. in 1922. During the summers of 1919, 1920, and 1922, he also kept botanically busy working at the Pike's Peak alpine laboratory of the Carnegie Institution with F. E. Clements and Harvey M. Hall (Howard, 1961; Munz, 1961).

From mid April to mid July 1921, Johnston took a leave from his master's studies and served as the botanical collector on the California Academy of Sciences expedition to the Gulf of California. As was to characterize his work throughout his career, Johnston returned home from his trip and published a 233-page article only three years later. His published account (Johnston, 1924c) is an excellent example of his ability to incorporate geological, geographical, and climatalogical information into his understanding of species. His introduction provides an excellent review of the physical features and geology of the region. During the trip, Johnston made about 1500 collections on 30 islands in the Gulf, 5 sites in Sonora, and 14 localities on mainland Baja California (Johnston, 1924c). The collection represented approximately 300 species, of which about 50 were new to science (Evermann, 1921). Then-director of the museum at the California Academy of Sciences, B. W. Evermann, wrote in his Director's Report for 1921, "Specialists who have examined some of the groups assert that, in spite of the fact that the time when the collecting was done was the most unfavorable of the year, it is the best collection ever made in that little explored region." In addition to his collections of vascular plants, Johnston kept a separate number series for the marine algae, which he also collected. William Albert Setchell and Nathan Lyon Gardner (1924) described 60 new species from his collections, 14 of them named after him (Table 1).

During both high school and his undergraduate college years, Johnston developed professional relationships with the prominent botanists in California, and also with botanists in other parts of the country. One of those who most influenced Johnston was J. Francis Macbride, then at the Gray Herbarium at Harvard (later at the Field Museum in Chicago). Johnston had expressed his opinion to Macbride as early as 1918 that some of the Boraginaceae of the American Southwest were in dire need of study; it was Macbride's suggestion that Johnston continue with his graduate studies at Harvard (Howard, 1961; Mangelsdorf et al., 1961).

Johnston moved to the East Coast to begin doctoral studies at Harvard under the direction of B. L. Robinson in the fall of 1922. He received his doctorate in 1925 following approval of his dissertation by his graduate committee of Robinson, Oakes Ames, and Merrit L. Fernald. His thesis, entitled "The North American Species of *Cryptantha*," was published as the fourth article in his "Studies in the Boraginaceae" (Johnston, 1925a).

With the encouragement of Robinson, Johnston was awarded a Sheldon Traveling Fellowship, which allowed him to travel to and conduct fieldwork in Chile from 1 October 1925 to 31 May 1926. During this trip he developed a series of friendships that lasted his entire life; the respect his South American colleagues held for him is evidenced by the number of memorial articles published following his death (Ferreyra, 1960; Looser, 1961; Ruiz Leal, 1961). Both his guide to the preparation of botanical specimens for the herbarium (Johnston, 1939c) and his article "The floristic significance of shrubs common to North and South American deserts" (Johnston, 1940c) were re-published in Spanish (Johnston, 1941c, 1941d).

On 18 and 19 October 1925, Johnston collected the extraordinarily dry Nitrate Coast of northern Chile during an unusually wet year for the region. He gathered 86 collections in the region, 52 from a steep quebrada north of Tocopilla and 34 from the base of the hills north of Antofagasta. Between 28 October and 10 January, Johnston made 930 collections in the northern provinces of Chañaral and Taltal (Johnston, 1929c), which were the basis of his 137-page publication on the region three years after his fieldwork. While he collected wherever he could, he seemed particularly interested in the vegetation regularly covered by sea-fog, from altitudes of 300 to 800 m, between Barquito and Paposo. Many of the plants he described bear specific epithets commemorating the towns of the region.

On 10 January 1926, Johnston crossed the border through the Paso de Valeriano, into the drainage of the Río de la Tagua, in the high cordilleras of Argentina. He collected in this high-mountain region from 3000 to 4425 m for five days before returning to Chile late in the afternoon of 15 January with 121 collections from this poorly known area, including many new distributional records, seven new species, and a new variety (Johnston, 1929b).

Table 1. Types of marine algae collected by Ivan Johnston on the California Academy of Sciences exploration of the Gulf of California in 1921. S. & G. = Setch. & N. L. Gardner.

Coll. No.	Family	Species
1	Rhodophyllidaceae	*Hypnea johnstonii* S. & G.
2	Sargassaceae	*Sargassum guardiense* S. & G.
8	Codiaceae	*Codia simulans* S. & G.
8a	Oscillatoriaceae	*Hydrocoleum codicola* S. & G.
9e	Rivulariaceae	*Calothrix nodulosa* S. & G.
11	Sargassaceae	*Sargassum insulare* S. & G.
11b	Corynophyloeaceae	*Gonodia johnstonii* S. & G.
13a	Chamaesiphonaceae	*Xenococcus deformans* S. & G.
16	Codiaceae	*Codium conjunctum* S. & G.
18b	Rhodomelaceae	*Laurencia obtusiuscula* var. *corymbifera* S. & G.
21	Rhodophyllidaceae	*Corallopsis excavata* S. & G. (syntype with *Johnston 59*)
23	Gelidiaceae	*Gelidium decompositum* S. & G.
24	Encoeliaceae	*Colpomenia sinuosa* f. *expansissima* S. & G.
26	Chaetophoraceae	*Entocladia condensata* S. & G.
27	Gelidiaceae	*Gelidium johnstonii* S. & G.
27a	Ceramiaceae	*Ceramium procumbens* S. & G.
32	Dictyotaceae	*Dictyota hesperia* S. & G.
34c	Chamaesiphonaceae	*Dermocarpa reinschii* S. & G.
36	Rhodophyllidaceae	*Gracilaria vivipara* S. & G.
41	Rhodomelaceae	*Polysiphonia sinicola* S. & G.
42	Codiaceae	*Codium reductum* S. & G.
44	Rhodophyllidaceae	*Gracilaria pinnata* S. & G.
47	Codiaceae	*Codium cuneatum* S. & G.
47e	Ectocarpaceae	*Ectocarpus gonodioides* S. & G.
49b	Chaetophoraceae	*Entocladia mexicana* S. & G.
53b	Ceramiaceae	*Callithamnion endovagum* S. & G.
53c	Rhodomelaceae	*Laurencia estebaniana* S. & G.
53e	Grateloupiaceae	*Prionitis abbreviata* S. & G.
56	Nemastomaceae	*Schizymenia johnstonii* S. & G.
58b	Myrionemataceae	*Compsonema immixtum* S. & G.
59	Rhodophyllidaceae	*Corallopsis excavata* S. & G. (syntype with *Johnston 21*)
60	Grateloupiaceae	*Grateloupia squarrulosa* S. & G.
62	Rhodophyllidaceae	*Gracilaria johnstonii* S. & G.

62a	Ceramiaceae	*Ceramium bicorne* S. & G.
67b	Ceramiaceae	*Ceramium sinicola* S. & G.
71	Sargassaceae	*Sargassum johnstonii* S. & G.
72	Sargassaceae	*Sargassum herporhizum* S. & G.
74	Codiaceae	*Codium amplivesiculatum* S. & G.
74a	Codiaceae	*Codium unilaterale* S. & G.
74b	Codiaceae	*Codium longiramosum* S. & G.
81	Dictyotaceae	*Dictyota johnstonii* S. & G.
82	Nemastomaceae	*Schizymenia violacea* S. & G.
84	Rhodophyllidaceae	*Euchema johnstonii* S. & G. (syntype with *Johnston 88b*)
84e	Codiaceae	*Codium anastomosans* S. & G.
85	Grateloupiaceae	*Polyopes sinicola* S. & G.
86	Rhodophyllidaceae	*Eucheuma uncinatum* S. & G.
88	Grateloupiaceae	*Grateloupia johnstonii* S. & G.
88b	Rhodophyllidaceae	*Euchema johnstonii* S. & G. (syntype with *Johnston 84*)
102	Gigartinaceae	*Gymnogongrus carnosus* S. & G.
104	Ceramiaceae	*Ceramium johnstonii* S. & G.
105	Gigartinaceae	*Callymenia pertusa* S. & G.
107	Rhodophyllidaceae	*Anatheca elongata* S. & G.
108	Rhodophyllidaceae	*Gracilaria sinicola* S. & G.
110	Rhodomelaceae	*Polysiphonia johnstonii* S. & G.
113	Grateloupiaceae	*Grateloupia howeii* S. & G.
114		*Scinaia johnstonae* S. & G.
115	Grateloupiaceae	*Estebania conjuncta* S. & G.
118	Gigartinaceae	*Callophyllis johnstonii* S. & G.
121	Grateloupiaceae	*Grateloupia acroidalea* S. & G.
122	Rhodophyllidaceae	*Gracilaria pachydermatica* S. & G.
127	Rhodomelaceae	*Laurencia johnstonii* S. & G.
135	Cladophoraceae	*Cladophoropsis rubusta* S. & G.
135a	Myxophyceae	*Chlorogloea regularis* S. & G.
162	Rivulariaceae	*Calothrix nidulans* S. & G.

When Johnston first came to Harvard as a student, he was offered an Austin Fellowship but chose to work instead as an assistant in the Gray Herbarium, a position he held for nine years beginning in 1922. During these years he made trips to Europe in 1927 and 1929 and began his thorough examination of types of Boraginaceae housed in the major European collections.

With the encouragement of Oakes Ames, who had been appointed supervisor of the Harvard University herbaria, Johnston accepted a position of Research Associate in the Arnold Arboretum on 31 August 1931, where he remained for the rest of his professional career. Late in 1932, shortly after he married Mildred Williamson, the couple left for an extended tour of European herbaria that lasted nearly a year. He visited the collections in London, Amsterdam, Berlin, Munich, Geneva, and Paris; this lengthy examination of the historical specimens and types and the critical notes that he made had a great effect on the future of his research. However, this was a trip of mixed emotions for Johnston as revealed by his regular correspondence with Ethyl Antoinette Anderson, then business secretary at the Arnold Arboretum. He reveled in being a tourist in Europe and in having a chance to work in such

rich botanical collections, but also struggled with homesickness, particularly as Europe readied for World War II. On 14 September 1933 he wrote to Miss Anderson complaining about the Nazi censorship of mail: "The World has gone crazy and I find I am increasingly longing to get home among my own brand of nuts." He later continued, "No one will ever hear me complain again in Boston—or well, not for a time after I do get back."

He was appointed lecturer in 1934 and traveled to the Atkins Institution of the Arnold Arboretum in Soledad, Cuba, to gather plant material for a course he planned to teach. His work at the Arboretum continued, and he was promoted to Associate Professor in 1938. This was a happy and successful part of his career, mixing herbarium studies with stints in the field. On 31 August 1938 he wrote to Professor Merrill from Saltillo, Mexico, where he was collecting with Forrest Shreve and Thomas Mallery, colleagues from the Tucson Laboratory of Desert Investigations of the Carnegie Institution: "I am having a perfectly glorious time, feeling grand, and am tanned dark as a Mexican. Gosh it is good to be in the field again, studying and collecting plants. I had not realized how much I have missed the field these past five years during which I have worn pressed pants, had combed hair and regular baths. At present I am the tangliest looking member of the party and Shreve and Mallery have to introduce me as a Harvard Professor—which no one believes!"

His fieldwork in northern Mexico was an inventory of the desert plateau situated between the eastern and western parts of the Sierra Madre of northern Mexico and included almost all of Coahuila, the eastern parts of Chihuahua and Durango, and the northern part of Zacatecas. His flora of the region (Table 2) was based on historical collections from the region, particularly those of C. G. Pringle and E. Palmer, and those of his contemporaries, including C. H. Müller, F. Shreve, and R. Stewart, but the project was most forcefully driven by his own collecting efforts.

Table 2. A catalog of the plant families treated in "Plants of Coahuila, Eastern Chihuahua, and adjoining Zacatecas and Durango." Volume and page numbers are from the *Journal of the Arnold Arboretum,* where the series was published. The flora was never completed, and parts 4 and 5 were published out of order.

Part	Family	Author	Volume	Pages
1	Polypodiaceae	C. A. Weatherby	24	308–324
1	Schizeaceae	C. A. Weatherby	24	324
1	Marsileaceae	C. A. Weatherby	24	324–325
1	Psilotaceae	C. A. Weatherby	24	325
1	Equisetaceae	C. A. Weatherby	24	325
1	Selaginellaceae	C. A. Weatherby	24	325–329
1	Pinaceae	I. M. Johnston	24	329–335
1	Taxodiaceae	I. M. Johnston	24	335
1	Cupressaceae	I. M. Johnston	24	336–338
1	Ephedraceae	I. M. Johnston	24	338–339
2	Typhaceae	I. M. Johnston	24	375
2	Naiadaceae	I. M. Johnston	24	275
2	Potamogetonaceae	I. M. Johnston	24	375
2	Alismataceae	I. M. Johnston	24	376
2	Graminae	I. M. Johnston	24	376–421
3	Cyperaceae	H. K. Svenson	25	43–50
3	Palmae	I. M. Johnston	25	50–51
3	Lemnaceae	I. M. Johnston	25	51

3	Commelinaceae	I. M. Johnston	25	51–54
3	Pontederiaceae	I. M. Johnston	25	54
3	Bromeliaceae	I. M. Johnston	25	54–56
3	Juncaceae	F. J. Hermann	25	56–59
3	Liliaceae	I. M. Johnston	25	59–75
3	Amaryllidaceae	I. M. Johnston	25	75–79
3	Iridaceae	I. M. Johnston	25	79–80
3	Orchidaceae	Identifications by L. O. Williams	25	81–83
4	Saururaceae	I. M. Johnston	25	431
4	Salicaceae	I. M. Johnston	25	431–435
4	Juglandaceae	I. M. Johnston	25	435–437
4	Betulaceae	I. M. Johnston	25	437
4	Fagaceae	C. H. Müller	25	437–450
4	Ulmaceae	I. M. Johnston	25	450–452
4	Moraceae	I. M. Johnston	25	452
4	Urticaceae	I. M. Johnston	25	452–453
5	Loranthaceae	I. M. Johnston	25	133–135
5	Santalaceae	I. M. Johnston	25	135
5	Rafflesiaceae	I. M. Johnston	25	135–136
5	Aristolochiaceae	I. M. Johnston	25	136–138
5	Polygonaceae	I. M. Johnston	25	138–144
5	Chenopodiaceae	I. M. Johnston	25	144–153
5	Amaranthaceae	I. M. Johnston	25	153–162
5	Nyctaginaceae	I. M. Johnston	25	162–182

In 1938, Richard Howard began his doctoral studies at Harvard and elected to study with Johnston as his major professor. Howard chose to study the systematics of Icacinaceae, and I. W. Bailey, who also served on his graduate committee, induced him to include anatomical studies in his research. Howard completed his studies in four years and received his doctoral degree in 1942.

In the 1940s Johnston remained active in the field, continuing his work in the deserts of northern Mexico in 1940 with C. H. Müller and by himself in 1941. He also made trips to Panama in 1944, 1945, and 1946, and he continually set his standards high, both in terms of new discoveries and specimen quality. On 18 September 1941, he again wrote to Merrill, this time from Ocampo, in Coahuila, Mexico: "I think I have a new *Fraxinus* for my new species today. I am running ahead of my scheduled 'one species a day.'" He always made well-prepared specimens according to the guidelines he formulated (formally published in Johnston, 1939c) that had a wealth of label data recorded. The extensive data recorded in his field books served as the heart of what he considered to be the real contribution of fieldwork. He used his field notes to reconstruct and convey the observations he made in Baja California (Johnston, 1924c), Argentina (Johnston, 1929b), Chile (Johnston, 1929c, 1930b), Peru (Johnston, 1929d), Mexico (Johnston, 1939a, 1940a, 1940b, 1940c, 1941a, 1941b, 1943a, 1943b, 1943d, 1943e, 1944a, 1944b, 1944c, 1948a, 1950b), and Panama (Johnston, 1945, 1949b). He wrote to J. Ewan on 16 September 1933 that the collectors "Pringle in Mexico, Ekman in the West Indies, or Dusen in Brazil and Argentina" were famous for their "discrimination and for the quality of specimens and the fullness of their labeling." He added that "Trash with scanty indecipherable labels only waste time and money" and that "thorough collecting near home and on a five cent fare is of greater need botanically than a

botanical junket to the Mohave," and on 27 November 1933 he added that it was more important to be "saying something new or making new observations."

More than many of the field botanists of his time, Johnston seemed ahead in the amount of time, effort, and thought he gave to the quality of the specimens he collected. He published a paper entitled "The preparation of botanical specimens for the herbarium" (Johnston, 1939c), and the subject was frequently addressed openly in his correspondence. One of his most frequent correspondents was U. T. Waterfall, to whom he frequently passed advice about specimen quality. He sent Waterfall a lengthy critique of his specimens on 22 September 1943 and concluded with "One more thing: with small annuals such as *Pectis*, *Euphorbia* etc. get enough so that with each specimen the herbarium sheet will be reasonably well filled when the plants are mounted. Some of your specimens of this class are a bit on the skimpy side." This was typical of both his straightforward manner and his compulsive attention to detail with specimens. He was more blunt with C. L. Lundell when on 29 August 1942 he wrote, "You do make handsome specimens. I hope you show some of them to the Texan botanists you meet, for I do not believe that Texan botanists know what a first-rate specimen looks like. Certainly the level of quality in botanical collecting by Texans is the lowest in the USA." Lundell responded, with a bit more politesse, that he would try and pass some of Johnston's suggestions on to collectors in Texas, but he could not risk insulting the botanists on whose work the progress of his flora depended.

In 1944, the U.S. Army selected San Jose Island, in the Gulf of Panama, as a tropical test site for the Chemical Warfare Service. The island was practically unknown botanically, and Johnston was employed by Division 10 of the Office of Scientific Research and Development as Scientific Advisor. He traveled to the island and collected plants from 29 September to 16 November 1944 and later made additional trips from 22 March to 2 May 1945 and 22 December 1945 to 19 February 1946 under the auspices of the service, which had been reorganized as the Chemical Corps. C. O. Erlanson, of the U.S.D.A., also participated in the collecting in 1945, and Johnston's report on the vegetation and catalog of the flora (Johnston, 1949b), once again published three years after the fieldwork was completed, was based on both of their collections.

In 1947, Johnston was promoted to supervisor of the herbarium and library of the Arnold Arboretum, and he became associate director the following year, a position he held until 1954. He seems to have taken on this responsibility with relish, and his correspondence from this time indicates an energetic interest in the growth of the Arboretum herbarium and library holdings, graduate students associated with the program, and the exchange and curation of specimens in the collection. Shiu-ying Hu came from China to the Arnold Arboretum in 1946 to study with Elmer Merrill. Johnston played an active role in her studies, and her dissertation on Chinese *Ilex* L. was sponsored by Merrill and Johnston. He continued to publish prolifically, and during this period produced several articles in the "Studies in the Boraginaceae" devoted to the Lithospermae, some of his most careful and detailed research (Johnston, 1952, 1953a, 1953d, 1954a, 1954b). His work on the Lithospermae combined his careful morphological and geographical analysis of specimens with a thorough study of palynology, resulting in significant changes in the classification of the tribe.

In the mid 1940s, plans began to materialize for the incorporation of the Arnold Arboretum herbarium and library with that of the Gray Herbarium. The plan initially had Johnston's full enthusiastic support, as he indicated in a letter of 12 August 1946 to his friend U. T. Waterfall: "The whole botanical setup at Harvard is being reorganized, we are to unite under one roof and one direction the Gray herb., the Farlow Herb, and the herbarium and library of the Arboretum, and we are now planning the new building and getting the organization worked out. Merrill and Fernald have retired or will do so after this academic year. It is a revolution. There have been endless conferences. I am very pleased with the prospects, but it is going to take time and headaches before we can get union and things functioning under the new plan." As the merge of the two collections progressed, however,

Johnston's view of the situation changed dramatically, and by 1949 he vigorously opposed the reorganization.

The 1950s at Harvard were even more difficult for Johnston as he became increasingly embroiled in the internal politics regarding the merging of the Arnold Arboretum herbarium and library with that of the Gray Herbarium (Howard, 1961; Mangelsdorf et al., 1961). In September of 1954, he wrote to W. Andrew Archer, Bureau of Plant Industry (Beltsville, Maryland), "The big noise about the breakup of the Arboretum, particularly the spending of half or more of its income in Cambridge, is about to break in the law suits to begin in October. Personally I think there is better than a 50/50 chance that a breach of trust will be proved against the University and that the herbarium and library will be moved back to Jamaica Plain."

By the mid 1950s Johnston's dispute had intensified, and he was increasingly critical in his correspondence. He took his first ever sabbatical leave starting 1 January 1956, but returned to the same situation that he had left and by late summer, on 29 August 1956, he wrote to John Dwyer at the Missouri Botanical Garden, "Here at the Arboretum things have been tense." Much of his correspondence from the mid and late1950s contains extensive passages complaining about his situation, and it was clear that by this time it had reached a point where it dominated his work life, and his difficulty adapting to the new arrangement began to impede his continuing research. He almost systematically included in his letters from the period long passages about the situation, and his letter to J. E. Dandy, of the British Museum of Natural History, on 13 January 1958 was typical. He wrote, "My work on the Boraginaceae has been brought to a close for I no longer have access to the collections in the herbarium of the University nor to the books in the herbarium library. I have been denied an office in the Herbarium Bldg. and so many insulting restrictions have been placed on my entry and use of the collections that I refuse to have any thing to do with them. I am being punished because, along with Ames, Merrill, and Sax, also botany professors at Harvard, I spoke up in defense of taxonomy ...." This response was to a letter in which Dandy had inquired about the place of publication of the combination *Pentaglottis sempervirens* (L.) Tausch.

Shortly after he returned from his sabbatical in the first half of 1956, he began to spend his summers conducting fieldwork in Texas and northern Mexico with his friend Donovan Correll, who had joined the Texas Research Foundation on 1 September 1956. Correll had been hired by C. L. Lundell to expedite work on the *Flora of Texas* (Roddy, 1967), and he invited Johnston to accompany him during his fieldwork in the summers. By 1958 Johnston was clearly considering leaving Harvard and moving to Texas to work with Correll on the *Flora of Texas* (Correll, 1961; Munz, 1961). On 30 September 1958 Correll wrote, "I can understand your restless feeling, what with Dr. Sax leaving and the situation at Harvard as it is." He inquired about the retirement situation at Harvard and asked Johnston, "Have you considered the possibility of applying for a National Science Foundation grant for further work on northern Mexico and then taking a year's leave-of-absence so as to get away from it all?" He continued to work and correspond with Correll, and they decided to submit a proposal to the National Science Foundation that would support Johnston's work on the Flora of Texas and allow him to move to the Texas Research Foundation. On 3 December 1959, Correll acknowledged a letter from Johnston inquiring about the possibility of obtaining a position and told him that he had discussed this with Lundell. Clearly, Lundell and Correll considered Johnston's inquiry seriously, and they acted to expedite his move to Renner. Correll traveled to Washington, D.C., to meet with David Keck, who was program director for systematic biology at the National Science Foundation office from 1958 to 1970 (Ewan, 1996), and early in 1960 Johnston and Correll exchanged a great deal of correspondence as their proposal was prepared for submission for the 15 May 1960 NSF deadline.

Ivan Johnston died suddenly and unexpectedly of a heart attack at the age of 62 in his home on the Arnold Arboretum grounds on 31 May 1960. His move to the Texas Research Foundation never materialized, and although he had intended to donate his personal library, it appears that this never came about. In Correll's letter to him on 10 May 1960, just 11 days before his death he stated, "Your

offer to deposit your botanical library here at the Foundation is most generous and we are most grateful to you. When you are ready to move, just have a packer come in and box up the books, separates, presses and driers and have them shipped to Renner either by van or express. The Foundation, as you know, will be more than willing to pay all the costs of packing, shipping, and any other expenses that might be incurred. If you have herbarium material which you would like to include in the shipment, by all means please do so. Where is your personal borage herbarium?" Unfortunately, Johnston died before he finished attending to the disposition of his correspondence, field books, and other parts of his personal library. Correll later wrote to Lundell, "Recently I attended the funeral of Dr. Ivan M. Johnston in Boston, Mass. Dr. Johnston, who was to join our staff in September, died suddenly of a heart attack on May 31. While in Boston, I met with Mrs. Johnston and arranged to purchase Dr. Johnston's private science library and some of his scientific equipment." His memo, dated 17 June 1960, indicates that the Foundation had agreed to pay $975.00 for Johnston's materials.

It appears that the bulk of Johnston's materials never made it to Texas. The Texas Research Foundation was dissolved in 1972, and the botanical library was deposited at the University of Texas, Austin (Turner, 1973). Lundell spent his later years at the University of Texas at Dallas. Apart from a few of Johnston's letters deposited in the Harry Ransom Humanities Research Center at the University of Texas at Austin, none of his materials seem to have become part of any of these collections. The final disposition of his field books remains a mystery, and on 6 October 1969 Richard Howard wrote from Harvard to Correll, confirming a similar response earlier from Harvard botanist Reed Rollins, that "At the time of Ivan's death he was spending most of his time at home or elsewhere and had about cleared his office. The residue was returned to Mrs. Johnston and I assumed you got it in the lot you purchased. We have a few lists of plants and determinations but nothing that could be called field books. I suspect you will find them in your acquisitions eventually."

The final disposition of Johnston's field books, the bulk of his correspondence, and other parts of his personal library remains a mystery. As Correll's letter instructing him to have his personal library shipped was dated only 11 days before his death, and Richard Howard's letter in 1969 indicates that Johnston had largely vacated his office by then, it seems most likely that Johnston's materials were all in his home, with his family, at the time of his death. Given his strained relationship with the other staff at Harvard, it seems unlikely that any effort was made by Harvard staff to intervene with his family, and as the material is absent from all of the collections in Texas, it probably never made it there. The most likely explanation is that Johnston's field books and library remained with his family.

While his field books are unavailable, the published literature indicates that Johnston maintained several distinct number series. His collections of marine algae from Baja California (Table 1) were clearly a different series than the vascular plants he collected in California and adjacent Mexico. Specimens that he cited for new species published from his Peruvian collections made in 1925 (Johnston, 1928a) include numbers within the same range used for his collections from Baja California in 1921. His main number series for vascular plants ran into the nine thousands, but he apparently resumed under a different series when he was collecting in Panama in 1944 and 1945. He also appears to have started a different number series for vascular plants collected with C. H. Müller in Mexico.

As mentioned earlier, Johnston's interests were broad, and during his career he published 106 articles, and two checklists of the Boraginaceae in Gould's (1962, 1969) catalog of the Flora of Texas (Appendix 1). Johnston's first four publications (Johnston, 1918a, 1918b, 1919a, 1919b) were all on some aspect of southern Californian botany, and he also published the results of his summer studies in 1921 on the California Academy of Sciences expedition to the Gulf of California (Johnston, 1922, 1924c). In 1922, he began a series of publications with his undergraduate mentor, Phillip Munz, that resulted in eight publications over four years, summarizing their studies of the ferns and flowering plants of southern California (Munz & Johnston, 1922a, 1922b, 1922c, 1923, 1924a, 1924b, 1925a, 1925b).

Beginning from his interest in plants of arid southern California, deserts continued to be one of Johnston's major interests throughout his life. Following his trip to Chile in 1925 and 1926, he published extensively on the plants of dry regions of Chile and Argentina (Johnston, 1926, 1929a, 1929b, 1929c, 1930b, 1931b, 1932, 1938b). His affection for desert plants is evidenced by his own personal bound volume entitled "Papers on Northern Mexico," presently in the Botany Libraries of Harvard University, which is a collection of his publications on desert floras including a comparison of North and South American deserts (Johnston, 1940c), a discussion of the unique floras of gypsophilous areas of Mexico (Johnston, 1941a), and three series of papers on Mexican plants: *New Phanerogams From Mexico I–V* (Johnston, 1939a, 1940a, 1940b, 1941b, 1943a), *Noteworthy Species From Mexico and Adjacent United States I–III* (Johnston, 1943b, 1948a, 1950b), and *Plants of Coahuila, Eastern Chihuahua, and Adjoining Zacatecas and Durango I–V)* (Johnston, 1943d, 1943e, 1944a, 1944b, 1944c). Johnston's personal volume had all of these papers bound together, and he continued to annotate them as he received new collections and distributional records, and updated taxonomy.

In addition to his general interest in desert floras, Johnston was truly an authority on floristics in general, particularly of Latin America. He conducted fieldwork in Argentina, Chile, Mexico, Panama, and Peru. He received large groups of specimens sent to him by field botanists in many countries, and he described the new species in many families. Some of these were significant enough to warrant their own publications, such as the collections of A. G. Curtis in Angola (1924b, 1925b) and others, such as F. E. Hinkley's Peruvian collections, were included in papers that were essentially compilations of new species he had discovered in the herbarium. From the 1920s through the 1940s the richest parts of South America, which had only been scratched by botanical explorers prior to this time, were being scoured by Bang and Steinback in Bolivia, J. Francis Macbride in Peru, Hitchcock in Ecuador, E. P. Killip and H. H. Smith in Colombia, and Johnston received duplicates of their specimens. He published on taxa in many families, but made extensive contributions to *Astragalus* L. (Johnston, 1938a), *Cercidium* Tul. (Johnston, 1924a, 1924c), *Fuchsia* L. (Johnston, 1939b), *Sisyrinchium* L. (Johnston, 1938c), and Nolanaceae (Johnston, 1936a) in addition to his work on Boraginaceae.

Johnston also published occasionally on the history of botany. As he uncovered data and information about collectors that he felt to be of utility, he published notes on their activities. This included accounts of the activities of Thomas Bridges (Johnston, 1928b), the names published by Molina (Johnston, 1924a) and Sessé and Mociño (Johnston, 1949a), and bibliographic information concerning the Pacific railroad reports (Johnston, 1943c), Gay's *Flora de Chile* (Johnston, 1941e), and Gaudichaud (Johnston, 1944d). However, while Johnston realized the importance of the study and publication of this sort of information, he viewed it as secondary to the true advancement of taxonomic research. In 1933, he wrote to J. Ewan, who had asked for Johnston's opinion on a bibliography of South American botany that he had begun, "I am very interested to learn that books appeal to you and that you have poked over the library shelves. There is nothing I like to do more myself and so, because of it all, I feel every one should know the botanical literature as well or better than I do. Alas most botanists do not! Hence from this prejudiced view point I am delighted in your projected bibliography. On the other hand I must say I would be careful not to get involved in a huge compilation which could be done just as well by an untrained non-botanical person." He later continued more strongly with "Let other people who are compilers and not botanists play with titles. Put your main efforts into research (backed with a good knowledge of related literature) and be responsible for papers you can be proud of as really contributing to the subject discussed and as making all previously written on the subject out of date."

IVAN M. JOHNSTON'S PUBLICATIONS ON BORAGINACEAE

While Johnston published on a wide variety of subjects, the major focus of his work was clearly Boraginaceae. He described more than 200 new taxa in Boraginaceae and also published numerous new combinations. As Boraginaceae are considered to consist of 131 genera and 2000 species (Brummit, 1992), Johnston probably provided names for about 10% of currently accepted species in the family. He also published 13 new genera in the family (Table 3). Forty-two of Johnston's 108 publications, plus two posthumous contributions, are devoted entirely to Boraginaceae (Correll, 1961; Appendix 1). Thirty-one of these comprise the series "Studies in the Boraginaceae," which appeared in four journals over 38 years, and cumulatively these comprise the greatest contribution to knowledge of the taxonomy of Boraginaceae ever published. The remaining 11 publications are mainly treatments of Boraginaceae for regional floras (Johnston, 1936b, 1942, 1948b, 1953b, 1953c, 1957, 1962, 1969); a single species of *Onosma* L. was described in *Candollea* (Johnston, 1931a), and *Heliotropium piurense* I. M. Johnst. was described in a separate article in the *American Journal of Botany* (Johnston, 1946).

Table 3. New genera described by Ivan Johnston.

Genus	Family
Amblynotis	Boraginaceae
Antrophora	Boraginaceae
Chionocharis	Boraginaceae
Dasynotus	Boraginaceae
Gnestidium	Fabaceae
Lasiarrhenum	Boraginaceae
Mairetis	Boraginaceae
Mastigostyla	Iridaceae
Microcaryum	Boraginaceae
Moltkiopsis	Boraginaceae
Nesocaryum	Boraginaceae
Nomosa	Boraginaceae
Oreogenia	Boraginaceae
Perittostema	Boraginaceae
Petrogenia	Convolvulaceae
Psilolaemus	Boraginaceae

However, while Johnston's broad knowledge of Boraginaceae has never been equaled, his work on the family was not at all even and reflected where his love for the taxonomy of the family intersected with his other interests. Thus, he published much more extensively on taxa that occurred in the American West, deserts of Mexico and South America, and other areas of Latin America than any of the Old World taxa. The number of names that he treated in the 12 largest genera, which cumulatively comprise more than half of the family, is not always reflective of the size of the genera (Table 4). Nevertheless, his broad knowledge of the family led to major revisions that were widely respected by both his American, European (Correll, 1961), and Latin American colleagues (Ferreyra, 1960; Looser, 1961).

Munz (1961) wrote that Johnston had an "instinctive feeling or sense for plant taxonomy" and "in the field or herbarium he saw a plant as a plant: its color, habit, vesture, shape of individual organs, all as a whole, as one image. He felt it as a unit and could compare it as such with other individual plants

in such a way as to recognize it as something apart and with its own characters." He combined this innate feel for plants with a keen sense of geography, geology, and climatology, all subjects he pursued vigorously, to achieve remarkable insight into plant groups that were previously very poorly understood. Even though Johnston knew 8 of the 12 species of *Cordia* sect. *Gerascanthus* (P. Browne) Don from Mexico and Central America from three or fewer collections, his treatment of the species (Johnston, 1950a) has proven remarkably robust and differs little from more recent treatments (Miller, 1986).

Johnston set high standards for himself, and he expected the same of others. He was often brutally honest in print regarding his opinion of the works of others as when he described Rydberg's classification of the South American species of *Astragalus* as "artificial at many places and furthermore is to be condemned as provincial, since it is based almost exclusively on species of one region and without full consideration of those in other parts of the world" (Johnston, 1947). He also attacked those who suggested realignments in the classification of *Cordia* L., commenting on the study by Mez (1890) based heavily on wood anatomy, "Unfortified by a microtome I am quite unable to justify such groups as Mez has treated as *Myxae*, *Strigosae*, *Pilicordia*, and *Crassifoliae*. They seem to be quite heterogeneous and incapable of definition by those characters of habit, leaves, flowers and fruit that are, not only readily examined, but have been tested and are known to have phylogenetic significance" (Johnston, 1930a: 7). He was even more caustic about the treatment in Engler and Prantl's *Die natürlichen Pflanzenfamilien* (Gürke, 1893), which he dismissed as "the sketchy hack compilation of Gürke" (Johnston, 1930a: 3).

Table 4. Genera of Boraginaceae with 50 or more species and the number of names treated in Johnston's Studies.

	Number of Species	Names in Studies
Cordia	325[1]	516
Heliotropium	250[2]	385
Onosma	150[3]	77
Tournefortia	150[3]	225
Cryptantha	100[3]	326
Lithospermum	59[3]	231
Cynoglossum	55[3]	61
Bourreria	50[3]	16
Ehretia	50[3]	74
Mertensia	50[3]	63
Plagiobothrys	50[3]	145[4]
Trigonotis	50[3]	48

[1]Estimated by authors. [2]Frohlich. [3]Brummitt (1992). [4]Does not include names in *Allocarya*.

Johnston was also an extraordinarily careful student of nomenclature for his time. His extensive study of European type specimens in the early 1930s and his careful application of the rules of nomenclature, as they existed at the time, always resulted in taxonomic studies that were well documented with careful nomenclatural work. In 1925, he was not only indicating types for all names he published, not required by the international Code until 1958, but also clearly distinguishing between holotypes and isotypes and even giving specimen accession numbers for holotypes when possible.

INDEX TO THE "STUDIES IN THE BORAGINACEAE"

The following index to Johnston's "Studies in the Boraginaceae" lists citations for each botanical name that appears in the 31 articles that comprise the series. Each name that appears is provided with a citation in the index that gives the number of the "Studies in the Boraginaceae" in which it appears followed by the page number from the journal where the name appeared. Thus, the citation XV: 341 for *Cordia johnstonii* Cufod. would indicate that the name appears on page 341 of volume 21 of the *Journal of the Arnold Arboretum*, in which Studies in the Boraginaceae XV was published. An index to the 31 articles of the "Studies in the Boraginaceae" is provided on the inside of the covers of this volume.

A citation for every scientific name from the Boraginaceae that appears in the series is provided except for the family name, Boraginacaeae, itself. While in general a name is indexed as appearing only on the pages on which it actually appears, for some articles that focus on a particular genus or other taxon above the species level, a range of page numbers may be given that conforms to subject matter rather than actual pages upon which the name is printed. Thus, the genus *Heliotropium* L. is indexed for all pages of the first part of "Studies in the Boraginaceae VII. 1. The South American species of *Heliotropium*," rather than providing a long list of the majority of pages where the name actually appears. "Studies in the Boraginaceae IX," the only article of the series published in *Contributions from the Arnold Arboretum*, appeared with an index. All names that appear in the actual article are included in this index, but the index pages are not.

The following index differs from Hilger and Zippel (2001) in several ways. Their index spanned all of Johnston's publications and covered more than his series "Studies in the Boraginaceae," so the two indices are to similar but not identical publications. But most significantly, Hilger and Zippel's work is an index to species and they have made taxonomic judgments, indexing under currently accepted names. The present index is an index to names, not species, and makes no effort to solve taxonomic questions. It is intended as a tool for those who will be trying to do so.

In addition, names of taxa other than Boraginaceae that are only mentioned incidentally are not indexed. For example, in "Studies in the Boraginaceae XIV. Miscellaneous Species from Asia, Malaysia, and America," Johnston included the following paragraph:

> "According to Mr. Hoover, *Cryptantha crymophila* grows in loose rocks about the summit of Red Peak (about 9950 ft.) down to about 9500 ft. altitude. Associated species include *Lupinus meionanthus*, *Senecio canus*, and *Erigeron compositus*. Red Peak is composed of dark, fine-grained rock said to be of volcanic origin. Some scattered shrubs of *Pinus albicaulis* grow up to the very summit. Mr. Hoover writes me that he collected the present species on the adjacent Bald Peak in 1936. The material, however, was in early flowering condition."

The only scientific name from Boraginacaeae in this paragraph that would be included in the index is *Cryptantha crymophila* I. M. Johnst.; *Lupinus meionanthus*, *Senecio canus*, *Erigeron compositus*, and *Pinus albicaulis*, each of which is only mentioned as occurring in the same habitat, are not included in the index. On the other hand, *Cornutia cymosa* (16: 346), while potentially perceived as a member of the Verbenaceae, is the basionym for *Cordia cymosa* (Donn.Sm.) Standl. and is therefore directly relevant to the systematics of the Boraginacaeae, so it is included. *Cornus sanguinaria* Forssk., included in the synonymy of *Cordia gharaf* (Forssk.) Ehrenb. ex Asch., is listed in the index and so is *Cornus sanguinaria* L., its earlier homonym excluded from the Boraginaceae.

Scientific names of plants are generally indexed exactly as they appeared in Johnston's publications with only the following exceptions. Minor orthographic variants have been corrected to conform to the most generally accepted usage. Thus *Lobostemon alpecuruoideus*, which appeared without an authority, is assumed to be *Lobostemon alopecuroideus* C. H. Wright and is so corrected in the index.

Also, commemorative epithets, which Johnston generally capitalized, are spelled in lowercase letters following article 60.2 and recommendation 60F of the *International Code of Botanical Nomenclature* (Greuter et al., 2000).

Standard author abbreviations have been modified to conform with Brummitt and Powell (1992). As Johnston's articles all predated the publications that currently index standard author abbreviations, his abbreviations for author names varied widely and frequently required checking original literature to confirm original authors. Various members of the de Candolle family were responsible for the publication of many names in the Boraginaceae and, as Johnston was frequently imprecise indicating authorship of those names, they have all been confirmed against original publications and standardized to conform with Brummit and Powell (1992). In addition, Johnston often listed subgeneric, sectional, and subsectional names without authors, and these have been added for convenience by checking original publication of the names. *Ehretia* sect. *Bourrerioides*, which appears without authority, is assumed to be *Ehretia* sect. *Bourreria* DC., rather than a new name published by Johnston.

There remain scattered throughout the "Studies in the Boraginaceae," however, some names that seem to have never been published and for which authors cannot be located. These have been included unless Johnston provided some indication that they were not published names. Thus *Lithospermum hookeri*, *Macrotomia hookeri*, and *Nonnea alpestris* appear in the index without authority names. They appear this way in Johnston's publications and appear to be unpublished. It is not clear whether they were merely unpublished combinations that Johnston had planned to make later. However, several names that appear in "Studies in the Boraginaceae XVII. 2. The identity of species by Sessé and Mociño" are clearly indicated as names that merely appeared on specimens in their herbarium. As these have no taxonomic validity, they are not included in the index unless they were published elsewhere.

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_____. 1944b. Plants of Coahuila, eastern Chihuahua, and adjoining Zacatecas and Durango, V. J. Arnold Arbor. 25: 133–182. (Published out of sequence before part IV.)
_____. 1944c. Plants of Coahuila, eastern Chihuahua, and adjoining Zacatecas and Durango, IV. J. Arnold Arbor. 25: 431–453.
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A CATALOG OF THE CORRESPONDENCE OF IVAN M. JOHNSTON

10 Nov. 1919 – from Adele Grant
(MO – Ewan) – 22 Nov. 1919 – to Miss Grant
17 June 1931 – from Mr. H. H. Hu
(A) 16 July 1931 – to Mr. H. H. Hu, Peiping, China
(A) 3 June 1932 – to Major H. Crampton Jones, Cambridge, MA
(A) 19 Dec. 1932 – to Miss Anderson, Cambridge, MA (from London)
(A) 18 Apr. 1933 – to Miss Anderson, Cambridge, MA (from Berlin)
(MO – Ewan) 15 May 1933 – from Joseph Ewan
(A) 6 July 1933 – to Miss Anderson, Cambridge, MA (from Berlin)
(A) 14 Sep. 1933 – to Miss Anderson, Cambridge, MA (from Paris)
(MO – Ewan) 16 Sep. 1933 – to Ewan
(A) 19 Sep. 1933 – to Mr. Norman Davis, Paris
(A) 20 Sep. 1933 – to Prof. Ames, Cambridge, MA (from Paris)
(A) 10 Oct. 1933 – to Miss Anderson, Cambridge, MA (from London)
(MO – Ewan) 14 Nov. 1933 – from Joseph Ewan
(MO – Ewan) – 27 Nov. 1933 – to Mr. Ewan
(TEX) 1 Dec. 1933 – to Mr. Lundell
(MO – Ewan) – 31 Dec. 1933 – from Joseph Ewan
(A) 4 Aug. 1934 – to Miss Anderson, Cambridge, MA (from Long Island)
(A) 12 Aug. 1934 – to Prof. Ames, Cambridge, MA (from Soledad, Cuba)
(TEX) 5 Nov. 1934 – to Dr. Lundell
(MO) 27 Nov. 1934 – Dr. Prof. Greenman
(MO – Ewan) – 24 Sep. 1935 – from Joseph Ewan
(MO – Ewan) – 30 Sep. 1935 – to Ewan
(MO – Ewan) – 15 Oct. 1935 – from Joseph Ewan
(MO – Ewan) – 6 Nov. 1935 – to Ewan
(MO – Ewan) – 5 Feb. 1936 – from Joseph Ewan
(MO – Ewan) – 11 Feb. 1936 – to Ewan
(MO – Ewan) – 4 Mar. 1936 – to Ewan
(MO – Ewan) – 8 Oct. 1936 – from Joseph Ewan
(MO – Ewan) – 15 Feb. 1937 – to Ewan
(MO – Ewan) – 27 Dec. 1937 – to Ewan
(A) 22 Jan. 1938 – to Dr. Thompson
(A) 31 Aug. 1938 – to Dr. Merrill (from Saltillo)
(A) 6 Sep. 1938 – to Prof. Merrill (from Zacatecas)
(MO – Ewan) – 17 Jan. 1939 – from Joseph Ewan
(MO – Ewan) – 24 Jan. 1939 – to Ewan
9 May 1939 – from Dr. Benson
(MO – Ewan) – 7 Oct. 1939 – from Joseph Ewan
(A) 5 Feb. 1940 – to Dr. Benson
(TEX) 5 Apr. 1940 – to Dr. Lundell
(TEX) 25 Apr. 1940 – from C. L. Lundell
(MO – Ewan) – 14 Nov. 1940 – from Jospeh Ewan
(TEX) 17 Dec. 1940 – to Dr. Lundell
(TEX) 24 Dec. 1940 – from C. L. Lundell
(TEX) 15 June 1941 – to Dr. Lundell
(TEX) 16 June 1941 – from C. L. Lundell
(TEX) 18 June 1941 – to Dr. Lundell
(TEX) 2 July 1941 – from C. L. Lundell
(A) 15 Aug. 1941 – to Prof. Merrill (from Santa Elena, Coahuila)
(A) 29 Aug. 1941 – from Prof. Merrill
(A) 18 Sep. 1941 – to Prof. Merrill (from Ocampo, Coahuila)

(A) 1 Oct. 1941 – to Prof. Merrill (from Esmeralda, Coahuila)
(A) 15 Jan. 1942 – to Mr. Stanford
(A) 11 Mar. 1942 – to Dr. B. Y. Morrison
21 Mar. 1942 – from Mr. Retherford
25 Mar. 1942 – from Mr. White
(A) 29 Mar. 1942 – to Mr. Retherford
(A) 29 Mar. 1942 – to Mr. White
(TEX) 23 June 1942 – from C. L. Lundell
(TEX) 29 Aug. 1942 – to Dr. Lundell
(TEX) 2 Oct. 1942 – from C. L. Lundell
4 Nov. 1942 – from Mr. Waterfall
23 Nov. 1942 – from Mr. Waterfall
25 Nov. 1942 – from Mr. Waterfall
(A) 1 Dec. 1942 – to Mr. Waterfall
29 Dec. 1942 – from Waterfall
(A) 10 Jan. 1943 – to Waterfall
(A) 20 Jan. 1943 – to Mr. Waterfall
5 Feb. 1943 – from Waterfall
(A) 15 Feb. 1943 – to Mr. Waterfall
(A) 1 May 1943 – Suggestions for fieldwork in trans-Pecos, Texas (marked as having been sent with letter of May 1)
11 June 1943 – from Waterfall
(A) 15 June 1943 – to Mr. Waterfall
(A) 22 Sep. 1943 – to Waterfall
12 Oct. 1943 – from Waterfall
31 Oct. 1943 – from Waterfall
(A) 15 Nov. 1943 – to McVaugh
11 Mar. 1944 – from Waterfall
(A) 15 Mar. 1944 – to Miss Anne S. Pratt
(A) 24 Apr. 1944 – to Waterfall
3 May 1944 – from Waterfall
(A) 8 May 1944 – to Waterfall
(A) 16 May 1944 – to Waterfall
(A) 24 Oct. 1944 – to Dr. Merrill (c/o Post Master, New Orleans, although this letter seems to have been written from Panama)
(A) 1 Feb. 1945 – to Waterfall
16 Sep. 1945 – from Waterfall
(A) 13 Oct. 1945 – to Dr. Merrill
(A) 14 Oct. 1945 – to Waterfall
(A) 12 Aug. 1946 – to Waterfall
21 Oct. 1946 – from Dr. M. K. Elias
(A) 1 Nov. 1946 – to Dr. Elias
(A) 14 May 1947 – to Mr. H. H. Chung
(A) 9 Sep. 1947 – to Professor Chiao
(MO – Ewan) – 21 Feb. 1948 – from Joseph Ewan
(MO – Ewan) – 9 Mar. 1948 – to Dr. Ewan
(A) 19 Mar. 1948 – to Mr. Wu
(A) 31 Mar. 1948 – to Walker
2 Apr. 1948 – from Dr. E. R. Walker
(A) 6 Apr. 1948 – to Walker
20 Apr. 1948 – from Miss Ching-Yung Cheng
(A) 24 Apr. 1948 – to Miss Cheng
(MO – Ewan) – 23 July 1948 – from Joseph Ewan
(MO – Ewan) – 4 Aug. 1948 – to Dr. Ewan
(MO – Ewan) – 23 Aug. 1948 – to Dr. Ewan
13 May 1949 – from Professor Martinez
(A) 22 June 1949 – to Professor Martinez
(A) 2 Nov. 1949 – to Mr. Anderson
11 Apr. 1950 – from Joseph Ewan
(A) 14 Apr. 1950 – memo from Merrill
(MO – Ewan) – 16 May 1950 – to Dr. Ewan
(MO – Ewan) – 2 June 1950 – from Joseph Ewan
3 Nov. 1950 – from Reverend B. Rambo, S. J.
(A) 4 Jan. 1951 – to Father Rambo
(MO – Ewan) – 14 Mar. 1951 – from Joseph Ewan
(A) 12 Aug. 1952 – to Dr. Fukarek
20 Oct. 1953 – from Mr. Rafael Romero Casteada
(A) 2 Dec. 1952 – to Mr. Guichard
(A) 8 Jan. 1953 – to Dr. Fukarek
(A) 14 Jan. 1953 – to Dr. Elias
(A) 5 Mar. 1953 – to Dr. Fukarek
(A) 5 Mar. 1953 – to Mr. Romero
24 Apr. 1953 – from Mr. Glen S. Winterringer
16 May 1953 – from Mr. Kenneth M. Guichard
(A) 25 May 1953 – to Mr. Guichard
(A) 12 June 1953 – to Mr. Witerringer
(A) 31 July 1953 – to Lyman
(A) 28 Sep. 1953 – to Taylor
(A) 23 Nov. 1953 – to Mrs. Woodhouse
(A) 25 Nov. 1953 – to Mr. Jessup
29 Jan. 1954 – from Mr. R. N. Parker
17 Feb. 1954 – from Mr. Jose Santos Biloni
6 Mar. 1954 – from Professor Barton H. Warnock
(A) 9 Mar. 1954 – to McVaugh
(A) 17 Mar. 1954 – to Dr. Warnock
24 Mar. 1954 – from McVaugh

27 Mar. 1954 – from Dr. George Taylor
(A) 30 Mar. 1954 – to Mr. Parker
(A) 30 Mar. 1954 – to Mr. Santos
7 Apr. 1954 – from Dr. Sidney F. Blake
(A) 22 Apr. 1954 – to Taylor
(A) 23 Apr. 1954 – to McVaugh
(A) 23 Apr. 1954 – to Blake
7 May 1954 – from Mr. Chester M. Rowell, Jr.
8 June 1954 – from Mr. W. Andrew Archer
(A) 15 Sep. 1954 – to Gentry
(A) 20 Sep. 1954 – to Mr. Rowell
(A) 23 Sep. 1954 – to Mr. Jaeger
(A) 23 Sep. 1954 – to Mr. Archer
(A) 12 Nov. 1954 – to Professor Rzedowski
(TEX – Turner) 15 Dec. 1954 – to Dr. Howard
21 Dec. 1954 – from Dr. Howard
(TEX – Turner) 28 Dec. 1954 – to Dr. Howard
(TEX – Turner) 5 Jan. 1955 – to Dr. Howard
5 Aug. 1955 – from Phillip Munz
(A) 22 Aug. 1955 – to Munz
29 Sep. 1955 – from Dr. Adrian Ruiz Leal
(TEX – Turner) 11 Oct. 1955 – to Dean Bundy
7 Nov. 1955 – from Mr. C. Frankton
(A) 31 Dec. 1955 – to Dr. Ruiz Leal
4 Jan. 1956 – from Mr. John Thomas Howell
(A) 6 Jan. 1956 – to Mr. Frankton
21 Mar. 1956 – Professor William A. Weber
(TEX – Turner) 10 May 1956 – from Dr. H. C. Solomon to Dean McGeorge Bundy
(A) 29 Aug. 1956 – to Dr. Dwyer
(A) 19 Jan. 1957 – to Dr. Lawrence
(A) 19 Jan. 1957 – to McVaugh
(A) 29 Jan. 1957 – to Woodson
(TEX) 7 Feb. 1957 – from Donovan S. Correll
19 Apr. 1957 – from Luther ?
23 May 1957 – from Dr. A. H. Mohajir
(A) 26 May 1957 – to Mr. Tonkin
(A) 10 June 1957 – to Luther
(A) 19 Aug. 1957 – to Dr. Tryon
23 Aug. 1957 – from Mr. Ernest J. Palmer
13 Sep. 1957 – from Dr. Earl P. Stephens
(A) 15 Sep. 1957 – to Dr. Weber
15 Sep. 1957 – from Phillip Munz
(A) 18 Sep. 1957 – to Mr. Palmer
(A) 18 Sep. 1957 – to Howell
(TEX) 18 Sep. 1957 – to Dr. C. L. Lundell
24 Sep. 1957 – from Dr. Carl Wolf
(A) 2 Oct. 1957 – to Munz
(A) 2 Oct. 1957 – to Mr. Little
(A) 3 Oct. 1957 – to Woodson
(A) 10 Oct. 1957 – to Dr. Mohajir
(A) 15 Oct. 1957 – to Dr. Stephens
(A) 18 Oct. 1957 – to Dr. Ruiz-Leal
(A) 29 Oct. 1957 – to Knobloch
(A) 29 Oct. 1957 – to Mr. Chisaki
(A) 30 Oct. 1957 – to Mr. Shama
(A) 30 Oct. 1957 – to Wolf
(TEX) 14 Nov. 1957 – from C. L. Lundell
21 Nov. 1957 – from Dr. W. Andrew Archer
11 Dec. 1957 – from Mr. J. E. Dandy
30 Dec. 1957 – from Waterfall
(A) 10 Jan. 1958 – to Dr. Waterfall
(A) 13 Jan. 1958 – to Sir (Dr. L. Lechner-Pock)
(A) 13 Jan. 1958 – to Munz
(A) 13 Jan. 1958 – to Dr. Mirov
(A) 13 Jan. 1958 – to Dandy
(A) 17 Jan. 1958 – to McVaugh
27 Jan. 1958 – from Professor L. H. Heckard
9 Feb. 1958 – from Professor George J. Goodman
11 Feb. 1958 – from Professor George J. Goodman
19 Feb. 1958 – from Dr. Leopold A. Charette
25 Feb. 1958 – from Dr. Warnock
(A) 26 Feb. 1958 – to Dr. Goodman
(A) 26 Feb. 1958 – to Dr. Heckard
(A) 26 Feb. 1958 – to Dr. Charette
(A) 26 Feb. 1958 – to Dr. Archer
4 Mar. 1958 – from Rogers McVaugh (with form questionnaire)
(A) 4 Mar. 1958 – to Dr. Warnock
5 Mar. 1958 – from Professor James P. Poole
5 Mar. 1958 – postcard from Mrs. Lore Lechner-Pock
9 Mar. 1958 – from Sr. Gualterio Looser
(A) 11 Mar. 1958 – to McVaugh
(A) 12 Mar. 1958 – to Dr. Poole
14 Mar. 1958 – from Ida Langman
(A) 24 Mar. 1958 – to Barneby
(A) 25 Mar. 1958 – to Mrs. Lechner-Pock
(A) 26 Mar. 1958 – to Mr. Looser
(MO – Ewan) 26 Mar. 1958 – to Miss Langman
(A) 27 Mar. 1958 – to McVaugh
(A) 27 Mar. 1958 – to Dr. Kenoyer
27 Mar. 1958 – from Dr. Reid Moran
28 Mar. 1958 – from Mr. Walter Yust

31 Mar. 1958 – from Professor Poole
(A) 1 Apr. 1958 – to Dr. Tryon
(A) 1 Apr. 1958 – to Dr. Moran
(A) 1 Apr. 1958 – to Dr. Howell
(A) 1 Apr. 1958 – to Mr. Yust
(A) 2 Apr. 1958 – to Professor Poole
(A) 4 Apr. 1958 – from John V. Dodge, *Encyclopedia Britannica*
26 Apr. 1958 – from Professor Irving Knobloch
(A) 5 May 1958 – to Knobloch
7 May 1958 – from St. Gualterio Looser
9 May 1958 – from Dr. John Ingram
(A) 15 May 1958 – to Sr. Ruiz
(A) 15 May 1958 – to Dr. Ingram
16 May 1958 – from Dr. F. G. Meyer
(A) 20 May 1958 – to Knobloch
(A) 4 June 1958 – to Mr. Looser
(A) 4 June 1958 – to Dr. Meyer
5 June 1958 – from Rogers McVaugh
(A) 12 June 1958 – to McVaugh
(A) 15 June 1958 – to Dr. Yust
26 June 1958 – from Mr. John V. Dodge
10 July 1958 – from Professor Albert N. Stewart
(A) 18 Aug. 1958 – to Mr. Dodge
2 Sep. 1958 – from Ida Langman
4 Sep. 1958 – from Dr. Reid Moran
(TEX) 19 Sep. 1958 – from Donovan S. Correll
(MO – Ewan) 22 Sep. 1958 – to Dr. Langman
(A) 29 Sep. 1958 – to Mr. Hunnewell
(A) 29 Sep. 1958 – to Mr. Buddington
(TEX) 30 Sep. 1958 – from Donovon S. Correll
1 Oct. 1958 – from Dr. Earle Smith, Jr.
3 Oct. 1958 – from Mr. Roger Buddington
(A) 7 Oct. 1958 – to Smitty
(A) 9 Oct. 1958 – to Gentlemen
(A) 10 Oct. 1958 – to Mr. Buddington
(A) 14 Oct. 1958 – to Dr. Stewart
(A) 14 Oct. 1958 – to Hitchy (Leo Hitchcock)
17 Oct. 1958 – to Correll
(TEX – Turner) 17 Oct. 1958 – to Dr. Turner
20 Oct. 1958 – from Dr. Earle Smith, Jr.
(TEX) 20 Oct. 1958 – from Donovan S. Correll
(TEX – Turner) 20 Oct. 1958 – from B. L. Turner
(TEX) 28 Oct. 1958 – from Donovan S. Correll
(TEX) 1 Nov. 1958 – from Donovan S. Correll
(A) 7 Nov. 1958 – to Smitty
(A) 7 Nov. 1958 – to Hitchy
7 Nov. 1958 – from Professor Irving Knobloch
(A) 10 Nov. 1958 – to Dr. Moran
(A) 10 Nov. 1958 – to Knobloch
(A) 10 Nov. 1958 – to Woodson
13 Nov. 1958 – from Dr. B. L. Turner
20 Nov. 1958 – to Correll
(A) 21 Nov. 1958 – to Dr. Turner
(A) 21 Nov. 1958 – to Smitty
(A) 21 Nov. 1958 – to Dr. Wahl
25 Nov. 1958 – from Dr. W. E. Grabau
(TEX) 25 Nov. 1958 – from Donovan S. Correll
(MO) 1 Dec. 1958 – from Robert E. Woodson, Jr.
(MO) 15 Dec. 1958 – to Woodson
(A) 15 Dec. 1958 – to Dr. Grabau
15 Dec. 1996 – to Correll
(A) 16 Dec. 1958 – to Professor Rzedowski
(TEX) 18 Dec. 1958 – from Donovan S. Correll
16 Jan. 1959 – from Robert E. Woodson
24 Jan. 1959 – from Professor Jayme Coelho de Moraes
27 Jan. 1959 – from Woodson
(A) 3 Feb. 1959 – to Woodson
(A) 20 Feb. 1959 – to Munz
(A) 25 Feb. 1959 – to Dr. Waterfall
24 Mar. 1959 – from McVaugh
(TEX) 14 Apr. 1959 – from Donovan S. Correll
(A) 17 Apr. 1959 – to Shinners
15 Apr. 1959 – from McVaugh
(A) 17 Apr. 1959 – to McVaugh
23 Apr. 1959 – to McVaugh
(A) 8 May 1959 – from Ruiz Leal
27 May 1959 – from Professor G. F. Ledingham
(A) 16 June 1959 – to Milstead
18 June 1959 – from Julian Steyermark
(A) 22 June 1959 – to Dr. Velasco
(A) 22 June 1959 – to Dr. Ledingham
(TEX) 24 June 1959 – from Donovan S. Correll
(TEX) 20 July 1959 – from Donovan S. Correll
3 Aug. 1959 – from Professor Jayme Coelho de Moraes
(A) 24 Aug. 1959 – to Julian
(A) 24 Aug. 1959 – to Dr. Ruiz Leal
(A) 24 Aug. 1959 – to Sir (Professor Jayme Coelho de Moraes)
18 Sep. 1959 – from Dr. Reid Moran
6 Oct. 1959 – from Professor J. Lanjouw
19 Oct. 1959 – from Mr. Robert Ornduff
20 Oct. 1959 – from Mr. Bradford Washburn

(A) 22 Oct. 1959 – to Mr. Washburn
(A) 23 Oct. 1959 – to Dr. Moran
(A) 30 Oct. 1959 – to Mr. Ornduff
(A) 30 Oct. 1959 – to Dr. Lanjouw
(TEX) 12 Nov. 1959 – from D. S. Correll
1 Dec. 1959 – to Correll
(TEX) 3 Dec. 1959 – from Donovan S. Correll
(TEX) 9 Dec. 1959 – from Donovan S. Correll
(A) 10 Dec. 1959 – to Dr. Leonard
15 Dec. 1960 – from Professor A. B. Leonard
(TEX) 18 Dec. 1959 – from Donovan S. Correll
4 Jan. 1960 – from Dr. Louis O. Williams
8 Jan. 1960 – from Donovan S. Correll
(TEX) 12 Jan. 1960 – from Donovan S. Correll
12 Jan. 1960 – from Dr. James A. Calder
(TEX) 29 Jan. 1960 – from Donovan S. Correll
(A) 3 Feb. 1960 – to Williams
4 Feb. 1960 – from Dr. Frank W. Gould
(A) 8 Feb. 1960 – to Dr. Calder
(A) 9 Feb. 1960 – to Dr. Reitz
(A) 9 Feb. 1960 – to Professor Coelho de Moraes
(A) 9 Feb. 1960 – to Dr. Leonard
(A) 9 Feb. 1960 – to Fosberg
(A) 9 Feb. 1960 – to Sr. Aristeguieta
14 Feb. 1960 – from Dr. Delzie Demaree
(A) 16 Feb. 1960 – to Gentlemen (Congreso Geológico Internacional)
(A) 24 Feb. 1960 – to Dr. Leonard
(A) 10 Mar. 1960 – to Dr. Demaree
(A) 28 Mar. 1960 – to Dr. Gould
(A) 28 Mar. 1960 – to Sir (Congreso Geológico Internacional)
7 Apr. 1960 – from Sr. Guadalupe Berlanga O.
(TEX) 14 Apr. 1960 – from Donovan S. Correll
14 Apr. 1960 – from Miss Dorothy S. Manks, Librarian
20 Apr. 1960 – to Correll
(TEX) 29 Apr. 1960 – from Donovan S. Correll
(A) 2 May 1960 – to Miss Manks
(A) 3 May 1960 – to unknown recipient (apparently a letter of recommendation for Romero Casteneda to the Yale School of Forestry)
(A) 3 May 1960 – to Dr. Lems
(A) 5 May 1960 – to Dr. Gould
(A) 5 May 1960 – to Sir (Congreso Geológico Internacional)
(TEX) 10 May 1960 – from Donovan S. Correll
(A) Undated letter to Merrill from Chicago

Additional Relevant Correspondence:

(TEX) 17 June 1960 – Memo- between C. L. Lundell and D. S. Correll (probably from Correll)
(TEX) 3 Oct. 1969 – to Dr. Donovan S. Correll, Texas Research Foundation, from Reed C. Rollins
(TEX) 6 Oct. 1969 – to Dr. Donovan S. Correll, Texas Research Foundation, from Richard A. Howard

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Adelocaryum Brand, III: 71
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Alkanna sect. *Campylocaryum* A. DC., XXV: 282
Alkanna sect. *Eualkanna*, XXV: 281; XXVI: 70
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Allocarya albiflora Greene, I: 80; II: 41; IV: 27
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Varronia scouleri Hook. f. ex Andersson, XI: 175
Varonia sinensis Lour., XX: 8
Varronia sphaerocephala Willd. ex Humb., Bonpl. & Kunth, XVIII: 116
Varronia spicata Salzm. ex DC., VIII: 29; X: 43
Varronia spinescens , XVII: 106
Varronia tomentosa Lam., X: 41–42
Varronia tuberosa Sessé & Moç., XVII: 105
Varronia ulmifolia Juss. ex Dum. Cours., X: 34–35
Varronia urticacea (Standl.) Friesen, XVII: 87
Vaupelia Brand, III: 44, 46; XXVI: 4, 71–73, 75; XXVII: 158, 164
Vaupelia barbata (Vaupel) Brand, XXVI: 71–73
Vaupelia hispida (Baker & Wright) Brand, XXVI: 72–73
Verbenaceae J. St.-Hil., V: 45; VIII: 52; XXVI: 18
Vernonia scorpioides (Lam.) Pers., XI: 185
Verrucaria Medik., VIII: 72
Verrucaria Wegg, VIII: 72

Wheelerella G. B. Grant, I: 55; II: 45; IV: 6, 26; VI: 31
Wheelerella circumscissa G. B. Grant, I: 55; IV: 41
Wheelerella dichotoma G. B. Grant, I: 55; IV: 42
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Zoelleria procumbens Warb., VII: 82; XIV: 59–60, 62
Zoelleriae Gürke, XIV: 60
Zombiana Baill., XX: 15
Zombiana africana Baill., XX: 15
Zwackhia Sendtn., III: 45, 49; XXV: 275
Zwackhia aurea Sendtn., XXV: 275–276
Zwackhia sendteri (Boiss.) Maly, III: 49

Notes on the system:

- all taxa are cited by the page on which the name occurs in print.
- all names that appear in print are indexed regardless of status.
- specific epithets are all spelled in lower case letters regardless of how Johnston spelled them
- names with cited specimens are not included
- Studies in the Boraginaceae II ends with Taxonomic Records Concerning American Spermatophytes. These are not indexed as the majority are not Boraginaceae.
- names cited in the index to Studies in the Boraginaceae IX are cited only where they appear in the text, not in the index included with the article. The index is not considered here.

APPENDIX 1. PUBLICATIONS OF IVAN M. JOHNSTON

1. Johnston, I. M. 1918. Some undescribed plants from southern California. Bull. S. Calif. Acad. Sci. 17: 63–64.
2. _____. 1918. A few notes on the botany of southern California. Bull. S. Calif. Acad. Sci. 17: 64–66.
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5. _____. 1922. Undescribed plants mostly from Baja California. Univ. Calif. Publ. Bot. 7: 437–446.
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10. Munz, P. A. & _____. 1924. Miscellaneous notes on plants of southern California—III. Bull. Torrey Bot. Club 51: 295–302.
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18. _____. 1925. Studies in the Boraginaceae IV. The North American species of *Cryptantha*. Contr. Gray Herb. 74: 1–114.
19. _____. 1925. The Oenotheras of northwestern South America. Contr. Gray Herb. 75: 15–23.
20. _____. 1925. Further new plants collected by Mrs. Richard C. Curtis in tropical Africa. Contr. Gray Herb. 75: 23–26.
21. _____. 1925. Some undescribed American Spermatophytes. Contr. Gray Herb. 75: 27–39.
22. _____. 1925. Studies in the Boraginaceae V. 1. Concerning the range and identity of certain American species. 2. New or otherwise interesting Asiatic borages. Contr. Gray Herb. 75: 40–49.
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48. _____. 1937. Studies in the Boraginaceae XII. 1. *Trigonotis* in southwestern China. 2. Novelties and critical notes. J. Arnold Arbor. 18: 1–25.
49. _____. 1938. Notes on some *Astragalus* species of Ecuador and Peru. J. Arnold Arbor. 19: 88–96.
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54. _____. 1939. New fuchsias from southern Peru. J. Arnold Arbor. 20: 241–244.
55. _____. 1939. The Preparation of Botanical Specimens for the Herbarium. Jamaica Plain, Massachusetts.
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59. _____. 1940. New phanerogams from Mexico, III. J. Arnold Arbor 21: 253–265.
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68. _____. 1943. New phanerogams from Mexico, V. J. Arnold Arbor. 24: 90–98.
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74. _____. 1944. Plants of Coahuila, eastern Chihuahua, and adjoining Zacatecas and Durango, V. J. Arnold Arbor. 25: 133–182. (Published out of sequence before part IV.)
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76. _____. 1944. Publication date of Gaudichaud's botany of the voyage of the Bonite. J. Arnold Arbor. 25: 481–487.
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80. _____. 1947. *Astragalus* in Argentina, Bolivia and Chile. J. Arnold Arbor. 28: 336–409.
81. _____. 1948. Noteworthy species from Mexico and adjacent United States II. J. Arnold Arbor. 29: 193–197.

82. _____. 1948. Studies in the Boraginaceae XVI. Species chiefly from Mexico and the western United States. J. Arnold Arbor. 29: 227–241.
83. _____. 1948. Boraginaceae. *In*: B. A. Maguire et al., Plant explorations in Guiana in 1944, chiefly to the Tafelberg and the Kaieteur Plateau V. Bull. Torrey Bot. Club 75: 562.
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85. _____. 1949. Studies in the Boraginaceae XVIII. Boraginaceae of the southern West Indies. J. Arnold Arbor. 30: 111–138.
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88. _____. 1950. Noteworthy species from Mexico and adjacent United States III. J. Arnold Arbor. 31: 188–195.
89. _____. 1951. Studies in the Boraginaceae XX. Representatives of three subfamilies in eastern Asia. J. Arnold Arbor. 32: 62–78.
90. _____. 1951. Studies in the Boraginaceae XXI. Sino-Indian species of *Onosma*. J. Arnold Arbor. 32: 201–225, 344–368.
91. _____. 1951. Boraginaceae. *In*: T. H. Kearney & R. H. Peebles, Arizona Flora. Univ. of California Press, Berkeley and Los Angeles.
92. _____. 1952. Studies in the Boraginaceae XXII. Noteworthy species, chiefly Asian and South American. J. Arnold Arbor. 33:62–78.
93. _____. 1952. Studies in the Boraginaceae XXIII. A survey of the genus *Lithospermum*. J. Arnold Arbor. 33: 299–363.
94. _____. 1953. Studies in the Boraginaceae XXIV. 1. Three genera segregated from *Lithospermum*. 2. Supplementary notes on *Lithospermum*. J. Arnold Arbor. 34: 1–16.
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99. _____. 1954. Studies in the Boraginaceae XXVII. Some general observations on the Lithospermae. J. Arnold Arbor. 35: 158–166.
100. _____. 1956. Studies in the Boraginaceae XXVIII. New or otherwise interesting species from America and Asia. J. Arnold Arbor. 37: 288–306.
101. McCullough, C. R., _____ & J. M. Parker. 1956. Terrain study of the Panama Canal Zone with special reference to the Fort Sherman area and vicinity. North Carolina State College, Dept. Engineering Research.
102. _____. 1957. Studies in the Boraginaceae XXIX. *Echiochilon* and related genera. J. Arnold Arbor. 38: 255–293.
103. _____. 1957. Boraginaceae. *In*: J. A. Steyermark, Contributions to the flora of Venezuela. Fieldiana, Bot. 28: 1080–1082.
104. _____. 1959. Studies in the Boraginaceae XXX. Some noteworthy American Borages. Wrightia 2: 13–22.
105. _____. 1959. Studies in the Boraginaceae XXXI. Notes on some Texas borages. Wrightia 2: 158–162.

106. _____. 1962. Boraginaceae. *In*: F. W. Gould. Texas Plants—A Checklist and Ecological Summary. The Agricultural and Mechanical College of Texas, College Station.
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APPENDIX 2. TYPES OF IVAN M. JOHNSTON BY BINOMIAL

Abies (Pinaceae)
A. coahuilensis I. M. Johnst.—*Johnston 9010* (Mexico), holotype: A

Acacia (Fabaceae)
A. brandegeana I. M. Johnst.—*Johnston 3881* (Baja California), holotype: GH

Acalypha (Euphorbiaceae)
A. fulva I. M. Johnst.—*Macbride 4011* (Peru), holotype: F
A. macbridei I. M. Johnst.—*Macbride 5093* (Peru), holotype: F
A. skutchii I. M. Johnst.—*Skutch 981* (Guatemala), holotype: A

Acleisanthes (Nyctaginaceae)
A. nana I. M. Johnst.—*Pringle 5081* (Mexico), holotype: GH

Acrospira (Liliaceae)
A.curtisiae I. M. Johnst.—*Curtis 333* (Angola), holotype: GH

Adesmia (Fabaceae)
A. diaziana I. M. Johnst.—*Johnston 5352* (Chile), holotype: GH
A. glandiligera I. M. Johnst.—*Johnston 6117* (Chile), holotype: GH
A. gracillima I. M. Johnst.—*Johnston 5428* (Chile), holotype: GH
A. pirionii I. M. Johnst.—*Jaffuel 228* (Chile), holotype: GH
A. viscidissima I. M. Johnst.—*Johnston 5490* (Chile), holotype: GH

Aeschynomene (Fabaceae)
A. curtisiae I. M. Johnst.—*Curtis 321* (Angola), holotype: GH

Agave (Agavaceae)
A. chrysoglossa I. M. Johnst.—*Johnston 3123* (Baja California), holotype: CAS
A. oweni I. M. Johnst.—*Johnston 3085* (Baja California), holotype: CAS
A. sleviniana I. M. Johnst.—*Johnston 3043* (Baja California), holotype: CAS

Alchemilla (Rosaceae)
A. parodii I. M. Johnst.—*Parodi 6664* (Argentina), holotype: GH

Alnus (Betulaceae)
A. rhombifolia var. *bernardina* Munz & I. M. Johnst.—*Munz & Johnston 8468* (California), holotype: POM

Amaranthus (Amaranthaceae)
A. arenicola I. M. Johnst.—*Hitchcock 428a* (Kansas), holotype: GH
A. retroflexus var. *salicifolius* I. M. Johnst.—*Palmer 2043* (Mexico), holotype: GH
A. warnockii I. M. Johnst.—*Johnston 8886* (Mexico), holotype: GH

Ammoselenium (Apiaceae)
A. occidentale Munz & I. M. Johnst.—*Munz & Keck 4930* (California), holotype: POM

Amyris (Rutaceae)
A. cordata I. M. Johnst.—*Bartlett 10242* (Mexico), holotype: GH

Anemone (Ranunculaceae)
A. cicutifolia I. M. Johnst.—*Venturi 7716* (Argentina), holotype: GH

Antiphytum (Boraginaceae)
A. caespitosum I. M. Johnst.—*Purpus 2606* (Mexico), holotype: GH
A. nudicaules I. M. Johnst.—*Smith 393* (Mexico), holotype: GH

Antrophora (Boraginaceae), gen. nov.
A. williamsii I. M. Johnst.—*Williams & Molina 10960* (Nicaragua), holotype: GH

Anulocaulis (Nyctaginaceae)
A. reflexus I. M. Johnst.—*Johnston & Mueller 10* (Mexico), holotype: GH

Aplopappus (Asteraceae)
A. arenarius var. *incisifolius* I. M. Johnst.—*Johnston 3529* (Baja California), holotype: CAS
A. arenarius var. *rossii* I. M. Johnst.—*Johnston 3627* (Baja California), holotype: CAS

Ardisia (Myrsinaceae)
A. mitchellae I. M. Johnst.—*Mitchell 66* (Honduras), holotype: GH

Aristida (Poaceae)
A. dissita I. M. Johnst.—*Pringle 388* (Mexico), holotype: GH

Aristolochia (Aristolochiaceae)
A. coryi I. M. Johnst.—*Cory 8491* (Texas), holotype: GH
A. lassa I. M. Johnst.—*Palmer 187* (Mexico), holotype: GH
A. whitei I. M. Johnst.—*White 2429* (Mexico), holotype: GH
A. wrightii var. *texana* I. M. Johnst.—*Johnston 7986* (Mexico), holotype: GH

Argylia (Bignoniaceae)
A. sitiens I. M. Johnst.—*Johnston 5467* (Chile), holotype: GH

Asclepias (Asclepiadaceae)
A. eriocarpa var. *microcarpa* Munz & I. M. Johnst.—*Johnston 2833* (California), holotype: POM
A. leptopus I. M. Johnst.—*Johnston 4377* (Baja California), holotype: CAS

Astragalus (Fabaceae)
A. asplundii I. M. Johnst.—*Asplund 6132* (Bolivia), holotype: US
A. burkartii I. M. Johnst.—*Jörgensen 1337* (Argentina), holotype: GH
A. confinis I. M. Johnst.—*Guenther & Buchtien 1081* (Peru), holotype: HBG
A. crymophilus I. M. Johnst.—*Asplund 6134* (Bolivia), holotype: US
A. crypticus I. M. Johnst.—*Burkart 5407* (Argentina), holotype: GH
A. deminutivus I. M. Johnst.—*Fiebrig 2608* (Bolivia), holotype: GH
A. famatinae I. M. Johnst.—*Hieronymus & Niederlein 482* (Argentina), holotype: GH
A. flavocreatus I. M. Johnst.—*Burkart 5385* (Argentina), holotype: GH
A. hypsogenus I. M. Johnst.—*Venturi 10126* (Argentina), holotype: GH
A. joergensenii I. M. Johnst.—*Jörgensen 1126* (Argentina), holotype: GH
A. looserii I. M. Johnst.—*Looser 1132* (Chile), holotype: GH
A. melanogonatus I. M. Johnst.—*Johnston 5353* (Chile), holotype: GH
A. monteroi I. M. Johnst.—*Montero 1161* (Chile), holotype: GH
A. paposanus I. M. Johnst.—*Johnston 5586* (Chile), holotype: GH
A. parodii I. M. Johnst.—*Burkart 7360* (Argentina), holotype: GH
A. pauranthus I. M. Johnst.—*Fischer 99* (Argentina), holotype: GH
A. pulviniformis I. M. Johnst.—*Johnston 6128* (Argentina), holotype: GH
A. punae I. M. Johnst.—*herb. Spegazzini* no. 2111 (Argentina), holotype: LPS
A. ruiz-lealii I. M. Johnst.—*Ruiz Leal* 3343 (Argentina), holotype: GH
A. sprucei I. M. Johnst.—*Spruce 5771* (Ecuador), holotype: GH
A. valerianensis I. M. Johnst.—*Johnston 6033* (Chile), holotype: GH
A. venturii I. M. Johnst.—*Venturi 7417* (Argentina), holotype: US
A. werdermanii I. M. Johnst.—*Werdermann 1439* (Chile), holotype: B

Atriplex (Chenopodiaceae)
A. abata I. M. Johnst.—*Johnston 7617* (Mexico), holotype: GH
A. chapinii I. M. Johnst.—*Chapin 1104* (Chile), holotype: GH
A. clivicola I. M. Johnst.—*Johnston 5239* (Chile), holotype: GH

A. clivicola var. *lopholepis* I. M. Johnst.—*Johnston 5766* (Chile), holotype: GH
A. hypsophila I. M. Johnst.—*Johnston 6168* (Argentina), holotype: GH
A. prosopidum I. M. Johnst.—*Johnston 8877* (Mexico), holotype: GH
A. reptans I. M. Johnst.—*Johnston & Mueller 1081* (Mexico), holotype: GH
A. stewartii I. M. Johnst.—*Johnston & Mueller 777* (Mexico), holotype: GH
A. taltalensis I. M. Johnst.—*Johnston 5379* (Chile), holotype: GH
A. transandina I. M. Johnst.—*Johnston 6148* (Argentina), holotype: GH

Baccharis (Asteraceae)
B. taltalensis I. M. Johnst.—*Johnston 5329* (Chile), holotype: GH

Bargemontia (Nolanaceae)
B. clivicola I. M. Johnst.—*Johnston 6307* (Chile), holotype: GH
B. confinis I. M. Johnst.—*Weberbauer 7382* (Peru), holotype: F
B. deflexa I. M. Johnst.—*Harding s.n.* (Chile), holotype: GH
B. glauca I. M. Johnst.—*Johnston 4770* (Chile), holotype: GH
B. gracillima I. M. Johnst.—*Weberbauer 7457* (Peru), holotype: F
B. inconspicua I. M. Johnst.—*Rose 19416* (Chile), holotype: US
B. platyphylla I. M. Johnst.—*Weberbauer 7455* (Peru), holotype: F
B. tocopillensis I. M. Johnst.—*Johnston 3603* (Chile), holotype: GH

Bauhinia (Fabaceae)
B. thompsonii I. M. Johnst.—*Johnston 539* (Panama), holotype: A

Bernardia (Euphorbiaceae)
B. obovata I. M. Johnst.—*Moore & Steyermark 3289* (Mexico), holotype: GH

Bipinnula (Orchidaceae)
B. taltalensis I. M. Johnst.—*Johnston 5372* (Chile), holotype: GH

Bourreria (Boraginaceae)
B. hintonii I. M. Johnst.—*Hinton 10866* (Mexico), holotype: GH
B. longiflora I. M. Johnst.—*Hinton 15098* (Mexico), holotype: GH
B. rowellii I. M. Johnst.—*Rowell Jr. 3545* (Mexico), holotype: A
B. superba I. M. Johnst.—*Hinton 13834* (Mexico), holotype: GH

Bowlesia (Apiaceae)
B. paposana I. M. Johnst.—*Johnston 5550* (Chile), holotype: GH

Brachystegia (Fabaceae)
B. russelliae I. M. Johnst.—*Curtis 428* (Angola), holotype: GH

Brongniartia (Fabaceae)
B. abbottiae I. M. Johnst.—*Abbott 211* (Mexico), holotype: GH

Buddleia (Loganiaceae)
B. hypsophila I. M. Johnst.—*Skutch 843* (Guatemala), holotype: GH

Bursera (Burseraceae)
B. nesopola I. M. Johnst.—*Mason 1609* (Revillagigedo), holotype: CAS

Cacabus (Solanaceae)
C. flavus I. M. Johnst.—*Pennell 13066* (Peru), holotype: GH

Caiophora (Loasaceae)
C. jorgensenii I. M. Johnst.—*Jörgensen 1163* (Argentina), holotype: GH

Calandrinia (Portulacaceae)
C. adenosperma I. M. Johnst.—*Hinkley 35* (Peru), holotype: GH
C. cephalophora I. M. Johnst.—*Johnston 3591* (Chile), holotype: GH

C. chrysantha I. M. Johnst.—*Johnston 3589* (Chile), holotype: GH
C. lamprosperma I. M. Johnst.—*Johnston 5317* (Chile), holotype: GH
C. sitiensis I. M. Johnst.—*Johnston 5470* (Chile), holotype: GH
C. taltalensis I. M. Johnst.—*Johnston 5284* (Chile), holotype: GH

Calliandra (Fabaceae)
C. socorrensis I. M. Johnst.—*Anthony s.n.* (Mexico), holotype: UC

Cardamine (Brassicaceae)
C. cremnophylla I. M. Johnst.—*Johnston 4927* (Chile), holotype: GH

Carlowrightia (Acanthaceae)
C. californica var. *pallida* I. M. Johnst.—*Johnston 3195* (Baja California), holotype: CAS

Casearia (Flacourtiaceae)
C. stjohnii I. M. Johnst.—*Erlanson 369* (Panama), holotype: A

Cercidium (Fabaceae)
C. australe I. M. Johnst.—*Fischer 20* (Argentina), holotype: GH
C. macrum I. M. Johnst.—*Pringle 2537* (Mexico), holotype: GH
C. molle I. M. Johnst.—*Johnston 3877* (Baja California), holotype: CAS
C. sonorae I. M. Johnst.—*Rose, Standley & Russell 12586* (Mexico), holotype: US

Chiropetalum (Euphorbiaceae)
C. cremnophilum I. M. Johnst.—*Johnston 5779* (Chile), holotype: GH

Claytonia (Portulacaceae)
C. lanceolata var. *peirsonii* Munz & I. M. Johnst.—*Pierson 2151* (California), holotype: UC

Cnidoscolus (Euphorbiaceae)
C. shrevei I. M. Johnst.—*Shreve 9104* (Mexico), holotype: GH

Cobaea (Polemoniaceae)
C. skutchii I. M. Johnst.—*Skutch 1456* (Guatemala), holotype: GH

Coccoloba (Polygonaceae)
C. waittii I. M. Johnst.—*Johnston 230* (Panama), holotype: A

Coldenia (Boraginaceae)
C. canescens var. *pulchella* I. M. Johnst.—*Shreve 6257* (Arizona), holotype: GH
C. canescens var. *subnuda* I. M. Johnst.—*Johnston 3731* (Mexico), holotype: GH
C. conspicua I. M. Johnst.—*Guenther 155* (Peru), holotype: Inst. Bot. Hamburg
C. cuspidata I. M. Johnst.—*Johnston 3617* (Mexico), holotype: CAS
C. ferreyrae I. M. Johnst.—*R. Ferreyra* 2506 (Peru), holotype: A
C. simulans I. M. Johnst.—*Scolnik 1010* (Peru), holotype: A

Colubrina (Rhamnaceae)
C. californica I. M. Johnst.—*Johnston 3496* (Baja California), holotype: CAS

Condalia (Rhamnaceae)
C. fasciculata I. M. Johnst.—*Johnston 7593* (Mexico), holotype: GH
C. globosa I. M. Johnst.—*Johnston 3028* (Baja California), holotype: CAS
C. globosa var. *pubescens* I. M. Johnst.—*Johnston 3201* (Baja California), holotype: CAS
C. parryi var. *microphylla* I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC
C. velutina I. M. Johnst.—*Duges s.n.* (Mexico), holotype: GH
C. viridis I. M. Johnst.—*Johnston 7015* (Mexico), holotype: GH

Cordia (Boraginaceae)
C. axillaris I. M. Johnst.—*Sello 1564* (Brazil), holotype: B

C. axillaris var. *gymnocarpa* I. M. Johnst.—*Claussen s.n.* (Brazil), holotype: K
C. braceliniae I. M. Johnst.—*Mexia 5617* (Brazil), holotype: GH
C. colimensis I. M. Johnst.—*Palmer 898* (Mexico), holotype: GH
C. cordiformis I. M. Johnst.—*Hayes 624* (Guatemala), holotype: GH
C. costaricensis I. M. Johnst.—*Skutch 282* (Costa Rica), holotype: GH
C. coyucana I. M. Johnst.—*Hinton 8156* (Mexico), holotype: GH
C. decipiens I. M. Johnst.—*Krukoff 6048* (Brazil), holotype: A
C. fallax I. M. Johnst.—*Hitchcock 17563* (Guyana), holotype: GH
C. fulva I. M. Johnst.—*Melinon 137* (French Guiana), holotype: GH
C. gardneri I. M. Johnst.—*Gardner 5126* (Brazil), holotype: K
C. globulifera I. M. Johnst.—*Palmer 573* (Mexico), holotype: GH
C. gracilipes I. M. Johnst.—*Hinton 14826* (Mexico), holotype: GH
C. hebeclada I. M. Johnst.—*Killip 34349* (Colombia), holotype: GH
C. hintonii I. M. Johnst.—*Hinton 7740* (Mexico), holotype: GH
C. hirta I. M. Johnst.—*Tate 259* (Venezuela), holotype: NY
C. iguaguana I. M. Johnst.—*Weberbauer 6213* (Peru), holotype: GH
C. inornata I. M. Johnst.—*Mexia 1080* (Mexico), holotype: GH
C. jamaicensis I. M. Johnst.—*Harris 8732* (Jamaica), holotype: GH
C. laevifrons I. M. Johnst.—*Native Collector 236* (Surinam), holotype: U
C. laevior I. M. Johnst.—*Klug 2756* (Peru); holotype: A
C. latiloba I. M. Johnst.—*Glaziou 1106* (Brazil), holotype: K
C. lauta I. M. Johnst.—*Gentry 10878* (Mexico), holotype: A
C. lippioides I. M. Johnst.—*Cerrate 565* (Peru), holotype: GH
C. lomatiloba I. M. Johnst.—*Krukoff 5497* (Brazil), holotype: A
C. lucidula I. M. Johnst.—*Dunlap 284* (Panama), holotype: US
C. mexiana I. M. Johnst.—*Mexia 6459* (Peru), holotype: GH
C. munda I. M. Johnst.—*Cerrate 1294* (Peru), holotype: GH
C. naidophila I. M. Johnst.—*Killip & Smith 30008* (Brazil), holotype: GH
C. nelsonii I. M. Johnst.—*Nelson 6924* (Mexico), holotype: GH
C. nesophila I. M. Johnst.—*Stehle 2678* (Marie Galante), holotype: GH
C. passa I. M. Johnst.—*Chase 7461* (Mexico), holotype: GH
C. protracta I. M. Johnst.—*Cooper 244* (Panama), holotype: GH
C. prunifolia I. M. Johnst.—*Skutch 298* (Guatemala), holotype: A
C. ripicola I. M. Johnst.—*Klug 2262* (Peru), holotype: A, GH
C. roraimae I. M. Johnst.—*Steyermark 59003* (Venezuela), holotype: F
C. setigera I. M. Johnst.—*St. Hilaire B-1478* (Brazil), holotype: P
C. skutchii I. M. Johnst.—*Skutch 1426* (Guatemala), holotype: GH
C. stellifera I. M. Johnst.—*Schipp 1040* (Belize), holotype: GH
C. stenoclada I. M. Johnst.—*Smith 608* (Mexico), holotype: GH
C. subvelutina I. M. Johnst.—*Hinton 15066* (Mexico), holotype: GH
C. ulei I. M. Johnst.—*Ule 9716* (Brazil), holotype: B, K
C. ulei var. *ucayaliensis* I. M. Johnst.—*Tessman 5457* (Peru), holotype: B
C. vargasii I. M. Johnst.—*Vargas 9790* (Peru), holotype: GH
C. varronifolia I. M. Johnst.—*Weberbauer 7138* (Peru), holotype: GH
C. weddellii I. M. Johnst.—*Weddell 3454* (Bolivia), holotype: P

Corethroegyne (Asteraceae)
C. filaginifolia var. *pinetorum* I. M. Johnst.—*Johnston 2137* (California), holotype: GH

Craniospermum (Boraginaceae)
C. mongolicum I. M. Johnst.—*Chaney 195* (Mongolia), holotype: GH

Cristaria (Malvaceae)
C. adenophora I. M. Johnst.—*Greninger 18* (Chile), holotype: GH
C. diaziana I. M. Johnst.—*Johnston 5365* (Chile), holotype: GH
C. formulosa I. M. Johnst.—*Johnston 5819* (Chile), holotype: GH
C. fuentesiana I. M. Johnst.—*Johnston 5686* (Chile), holotype: GH
C. glomerulata I. M. Johnst.—*Johnston 4744* (Chile), holotype: GH
C. intonsa I. M. Johnst.—*Johnston 5267* (Chile), holotype: GH
C. leucantha I. M. Johnst.—*Johnston 5270* (Chile), holotype: GH
C. paposana I. M. Johnst.—*Johnston 5502* (Chile), holotype: GH
C. thinophila I. M. Johnst.—*Johnston 5359* (Chile), holotype: GH

Crotalaria (Fabaceae)
C. bicolor I. M. Johnst.—*Curtis 211* (Angola), holotype: GH

Croton (Euphorbiaceae)
C. masonii I. M. Johnst.—*Mason 1637* (Revillagigedo), holotype: CAS

Cryptantha (Boraginaceae)
C. abramsii I. M. Johnst.—*Abrams 3139* (California), holotype: GH
C. angelica I. M. Johnst.—*Johnston 4221* (Mexico), holotype: CAS
C. argentea I. M. Johnst.—*Johnston 5814* (Chile), holotype: GH
C. barnebyi I. M. Johnst.—*Ripley & Barneby 8748* (Utah), holotype: GH
C. brandegei I. M. Johnst.—*Brandegee s.n.* (California), holotype: GH
C. calycotricha I. M. Johnst.—*Philippi s.n.* (Chile), holotype: SGO
C. clevelandii var. *florosa* I. M. Johnst.—*Macbride & Payson 797* (California), holotype: GH
C. clokei I. M. Johnst.—*Clokey & Ganderson 6859* (California), holotype: GH
C. coryi I. M. Johnst.—*Cory s.n.* (Texas), holotype: GH
C. crassipes I. M. Johnst.—*Cory 18613* (Texas), holotype: GH
C. crassisepala var. *typica* I. M. Johnst.—*Capt. Pope s.n.* (Texas), holotype: NY
C. crassisepala var. *elachantha* I. M. Johnst.—*McVaugh 8040* (Texas), holotype: LL
C. cyrmophila I. M. Johnst.—*Hoover 4193* (California), holotype: GH
C. decipiens var. *corollata* I. M. Johnst.—*Hubby 21* (California), holotype: GH
C. dissita I. M. Johnst.—*Tracy 1744* (California), holotype: GH
C. fastigiata I. M. Johnst.—*Johnston 3505* (Mexico), holotype: GH
C. ganderi I. M. Johnst.—*Gander 5328* (California), holotype: GH
C. gayi I. M. Johnst.—*Gay 1921* (Chile), holotype: SGO
C. grahamii I. M. Johnst.—*Graham 7924* (Utah), holotype: GH
C. grayi var. *nesiotica* I. M. Johnst.—*Johnston 3947* (Mexico), holotype: CAS
C. gypsites I. M. Johnst.—*Correll 19872* (Mexico), holotype: LL
C. hoffmannii I. M. Johnst.—*Hoffmann 78* (California), holotype: GH
C. hooveri I. M. Johnst.—*Hoover 558* (California), holotype: GH
C. hypsophila I. M. Johnst.—*Thompson 14129* (Idaho), holotype: GH
C. inaequata I. M. Johnst.—*Hall & Chandler 6925* (California), holotype: UC
C. latifolia I. M. Johnst.—*Macbride 5861* (Peru), holotype: F

C. macbridei I. M. Johnst.—*Macbride 5869* (Peru), holotype: F
C. mariposae I. M. Johnst.—*Congdon C59* (California), holotype: GH
C. maritima var. *pilosa* I. M. Johnst.—*Palmer 551* (Mexico)
C. mendocina I. M. Johnst.—*Osten 5129* (Argentina), holotype: G-BOIS
C. milobakeri I. M. Johnst.—*Baker 7629* (California), holotype: GH
C. nevadensis var. *rigida* I. M. Johnst.—*Pringle s.n.* (California), holotype: GH
C. peruviana I. M. Johnst.—*Macbride & Featherstone 674* (Peru), holotype: F
C. pterocarya var. *stenoloba* I. M. Johnst.—*Maguire 4466* (Arizona), holotype: GH
C. racemosa var. *lignosa* I. M. Johnst.—*Hall & Chandler 7034* (California), holotype: UC
C. rollinsii I. M. Johnst.—*Rollins 1715* (Utah), holotype: GH
C. romanii I. M. Johnst.—*San Román* s.n. (Chile), holotype: MS
C. spithamaea I. M. Johnst.—*Hoover 2169* (California), holotype: GH
C. subretusa I. M. Johnst.—*Thompson 12206* (Oregon), holotype: GH
C. taltalensis I. M. Johnst.—*Johnston 5121* (Chile), holotype: GH
C. thompsonii I. M. Johnst.—*Thompson 7663* (Washington), holotype: GH
C. torreyana var. *calistogae* I. M. Johnst.—*Tracy 2094* (California), holotype: GH
C. traskae I. M. Johnst.—*Trask s.n.* (California), holotype: GH
C. weberi I. M. Johnst.—*Weber 5778* (Colorado), holotype: GH
C. werdermanniana I. M. Johnst.—*Werdermann 1043* (Chile), holotype: GH
C. wigginsii I. M. Johnst.—*Wiggins 5107* (Mexico), holotype: GH

Cryptosepalum (Fabaceae)
C. curtisiorum I. M. Johnst.—*Curtis 186* (Angola), holotype: GH

Cyperus (Cyperaceae)
C. dioicus I. M. Johnst.—*Johnston 4145* (Baja California), holotype: CAS
C. duripes I. M. Johnst.—*Anthony s.n.* (Revillagigedo), holotype: UC

Cyphomeris (Nyctaginaceae)
C. gypsophiloides var. *stewartii* I. M. Johnst.—*Stewart 1943* (Mexico), holotype: GH

Dasylirion (Agavaceae)
D. heteracanthum I. M. Johnst.—*Johnston 8428* (Mexico), holotype: GH
D. stewartii I. M. Johnst.—*Stewart 823* (Mexico), holotype: GH
D. stewartii var. *glaucum* I. M. Johnst.—*Stewart 957* (Mexico), holotype: GH

Dasynotus (Boraginaceae), gen. nov.
D. daubenmirei I. M. Johnst.—*Daubenmire 46289* (Idaho), holotype: GH

Dioscorea (Dioscoreaceae)
D. cylindrostachya I. M. Johnst.—*Johnston 5394* (Chile), holotype: GH

Dolichos (Fabaceae)
D. linearifolius I. M. Johnst.—*Curtis 230* (Angola), holotype: GH

Domeykoa (Apiaceae)
D. perennis I. M. Johnst.—*Johnston 5689* (Chile), holotype: GH

Downingia (Campanulaceae)
D. immaculata Munz & I. M. Johnst.—*Munz 5093* (California), holotype: POM

Drymaria (Caryophyllaceae)
D. elata I. M. Johnst.—*Johnston 7823* (Mexico), holotype: GH

D. lyropetala I. M. Johnst.—*Johnston 7594* (Mexico), holotype: GH
D. lyropetala var. *coahuilana* I. M. Johnst.—*Johnston 567* (Mexico), holotype: GH
D. subumbellata I. M. Johnst.—*Johnston 8489* (Mexico), holotype: GH

Dussia (Fabaceae)
D. grandifrons I. M. Johnst.—*Skutch 2027* (Guatemala), holotype: A

Echiochilon (Boraginaceae)
E. adenophorum I. M. Johnst.—*Glover 1181* (Somalia), holotype: BM
E. collenittei I. M. Johnst.—*Collenitte 196* (Somalia), holotype: K
E. jugatum I. M. Johnst.—*Bent 21* (Dhofar), holotype: K
E. nubicum I. M. Johnst.—*Schweinfurth 2108* (Sudan), holotype: K
E. thesigeri I. M. Johnst.—*Thesiger s.n.* (Oman), holotype: BM

Ehretia (Boraginaceae)
E. confinis I. M. Johnst.—*Forrest 26357* (China), holotype: A
E. dicksoni var. *tilioides* I. M. Johnst.—*Steward 357* (China), holotype: A
E. hainanensis I. M. Johnst.—*Chun 44626* (China), holotype: A
E. tsangii I. M. Johnst.—*Tsang 21888* (China), holotype: A

Ekebergia (Meliaceae)
E. pumila I. M. Johnst.—*Curtis 258* (Angola), holotype: GH

Ephedra (Ephedraceae)
E. peninsularis I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC
E. wraithiana I. M. Johnst.—*Johnston 3705* (Chile), holotype: GH

Eremocharis (Apiaceae)
E. confinus I. M. Johnst.—*Weberbauer 7369* (Peru), holotype: F
E. dissecta I. M. Johnst.—*Weberbauer 7761* (Peru), holotype: F

Eriogonum (Polygonaceae)
E. fasciculatum var. *flavoviride* Munz & I. M. Johnst.—*Munz 4505* (California), holotype: POM
E. galioides I. M. Johnst.—*Johnston 3315* (Baja California), holotype: CAS
E. hemipterum var. *griseum* I. M. Johnst.—*Johnston & Mueller 547* (Mexico), holotype: GH
E. kennedyi var. *austromontanum* Munz & I. M. Johnst.—*Munz 6208* (California), holotype: POM
E. nodosum var. *jaegeri* Munz & I. M. Johnst.—*Jaeger 251* (California), holotype: POM
E. umbellatum var. *minus* I. M. Johnst.—*Johnston 1692* (California), holotype: UC

Eriosema (Fabaceae)
E. laetum I. M. Johnst.—*White 2650* (Mexico), holotype: GH

Eritrichium (Boraginaceae)
E. elongatum var. *paysoni* I. M. Johnst.—*Maguire 14385* (Utah), holotype: GH
E. laxum I. M. Johnst.—*Ludlow 5619* (Tibet), holotype: GH

Erodium (Geraniaceae)
E. chilense I. M. Johnst.—*Looser 739* (Chile), holotype: GH

Euphorbia (Euphorbiaceae)
E. ceroderma I. M. Johnst.—*Johnston 4304* (Baja California), holotype: CAS
E. chamberlini I. M. Johnst.—*Johnston 4136* (Baja California), holotype: CAS
E. hinkleyorum I. M. Johnst.—*Hinkley 7* (peru), holotype: GH
E. peninsularis I. M. Johnst.—*Purpus 325* (Baja California), holotype: UC
E. podagrica I. M. Johnst.—*Purpus 6437* (Nevada), holotype: UC

Euphrasia (Scrophulariaceae)
E. adenonota I. M. Johnst.—*Johnston 6067* (Chile), holotype: GH

Euplassa (Proteaceae)
E. occidentalis I. M. Johnst.— *Hitchcock 21311* (Ecuador), holotype: GH

Fagonia (Zygophyllaceae)
F. cretica var. *canariensis* I. M. Johnst.—*Ball s.n.* (Canary Islands), holotype: GH
F. densa I. M. Johnst.—*Johnston 3532* (Baja California), holotype: CAS

Fendlera (Hydrangeaceae)
F. rigida I. M. Johnst.—*Johnston & Mueller 912* (Mexico), holotype: GH

Ficus (Moraceae)
F. bullenei I. M. Johnst.—*Johnston 389* (Panama), holotype: A
F. campbellii I. M. Johnst.—*Johnston 721* (Panama), holotype: A
F. leavensii I. M. Johnst.—*Johnston 1125* (Panama), holotype: A
F. leavensii var. *thinophila* I. M. Johnst.—*Johnston 1012* (Panama), holotype: A

Fouquieria (Fouquieriaceae)
F. shrevei I. M. Johnst.—*Johnston 7815* (Mexico), holotype: GH

Frankenia (Frankeniaceae)
F. gypsophila I. M. Johnst.—*Johnston 7614* (Mexico), holotype: GH

Fuchsia (Onagraceae)
F. abrupta I. M. Johnst.—*Macbride 4541* (Peru), holotype: F
F. andrei I. M. Johnst.—*André 820* (Colombia), holotype: F
F. apiculata I. M. Johnst.— *Hitchcock 21667* (Ecuador), holotype: GH
F. atrorubra I. M. Johnst.—*Pennell 10313* (Colombia), holotype: GH
F. austromontana I. M. Johnst.—*West 7083* (Peru), holotype: UC
F. boliviana var. *luxurians* I. M. Johnst.—*Pittier 9252* (Venezuela), holotype: GH
F. chloroloba I. M. Johnst.—*Pennell 13973* (Peru), holotype: GH
F. furfuraceae I. M. Johnst.—*Bang 674* (Bolivia), holotype: GH
F. glaberrima I. M. Johnst.—*Hitchcock 21750* (Ecuador), holotype: GH
F. hitchcockii I. M. Johnst.—*Hitchcock 21603* (Ecuador), holotype: GH
F. hypoleuca I. M. Johnst.—*Hitchcock 21440* (Ecuador), holotype: GH
F. killipii I. M. Johnst.—*Killip & Smith 16695* (Colombia), holotype: GH
F. macrophylla I. M. Johnst.—*Macbride 5616* (Peru), holotype: F
F. perbrevis I. M. Johnst.—*Holton 892* (Colombia), holotype: NY
F. platypetala I. M. Johnst.—*West 3705* (Peru), holotype: UC
F. polyanthella I. M. Johnst.—*Macbride 4290* (Peru), holotype: F
F. spectabilis var. *pubens* I. M. Johnst.—*Rose & Rose 22479* (Ecuador), holotype: US
F. steinbachii I. M. Johnst.—*Steinback 5038* (Bolivia), holotype: NY
F. townsendii I. M. Johnst.—*Townsend A93* (Ecuador), holotype: US
F. velutina I. M. Johnst.—*Macbride 3715* (Peru), holotype: F

Gallium (Rubiaceae)
G. angustifolium var. *pinetorum* Munz & I. M. Johnst.—*Davidson s.n.* (California), holotype: UC
G. gabrielense Munz & I. M. Johnst.—*Munz 6078* (California), holotype: POM
G. hallii Munz & I. M. Johnst.—*Johnston 2067* (California), holotype: UC

Genestidium (Fabaceae), gen. nov.
G. *dumosum* I. M. Johnst.—*Johnston & Mueller 944* (Mexico), holotype: GH

Geranium (Geraniaceae)
G. parodii I. M. Johnst.—*Parodi 7514* (Argentina), holotype: GH

Gilbertia (Araliaceae)
G. amplifolia I. M. Johnst.—*Smith 1778* (Colombia), holotype: GH
G. eurycarpa I. M. Johnst.—*Pringle 3723* (Mexico), holotype: GH
G. smithiana I. M. Johnst.—*von Türckheim 11407* (Guatemala), holotype: GH

Gilia (Polemoniaceae)
G. calothyrsa I. M. Johnst.—*Stewart 1044* (Mexico), holotype: GH
G. chachanensis I. M. Johnst.—*Hinkley 25* (Peru), holotype: GH
G. inyoensis I. M. Johnst.—*Heller 8281* (California), holotype: GH
G. platyloba I. M. Johnst.—*Palmer 799* (Mexico), holotype: GH
G. stewartii I. M. Johnst.—*Johnston & Mueller 1258* (Mexico), holotype: GH

Gnaphalium (Asteraceae)
G. albidum I. M. Johnst.—*Spencer 69* (California), holotype: GH
G. texanum I. M. Johnst.—*Harvard 26* (Texas), holotype: GH
G. viridulum I. M. Johnst.—*Metcalfe 742* (New Mexico), holotype: GH

Hackelia (Boraginaceae)
H. echinocarya I. M. Johnst.—*Wang 70292* (China), holotype: GH
H. leonotis I. M. Johnst.—*Mueller 2255* (Mexico), holotype: GH
H. longituba I. M. Johnst.—*Eastwood & Howell 8593* (California), holotype: GH
H. sharsmithii I. M. Johnst.—*Sharsmith 3354* (California), holotype: GH
H. skutchii I. M. Johnst.—*Skutch 1103* (Guatemala), holotype: GH
H. stewartii I. M. Johnst.—*Stewart 19526* (Kashmir), holotype: GH
H. stricta I. M. Johnst.—*Rose & Painter 7932* (Mexico), holotype: GH

Haploesthes (Asteraceae)
H. greggii var. *multiflora* I. M. Johnst.—*Palmer 206* (Mexico), holotype: GH
H. robusta I. M. Johnst.—*White 1923* (Mexico), holotype: GH

Harpagonella (Boraginaceae)
H. palmeri var. *arizonica* I. M. Johnst.—*Parish 162* (Arizona), holotype: GH

Havilandia (Boraginaceae)
H. opaca I. M. Johnst.—*Brass 4178* (Guyana), holotype: GH, NY
H. robusta I. M. Johnst.—*Brass 5681* (Guyana), holotype: NY

Heliotropium (Boraginaceae)
H. adenogynum I. M. Johnst.—*Macbride 495* (Peru), holotype: F
H. anomalum var. *mediale* I. M. Johnst.—*St. John 17486* (Christmas Island), holotype: BISH
H. arborescens var. *grisellum* I. M. Johnst.—*Weberbauer 7272* (Peru), holotype: F
H. catamarcense I. M. Johnst.—*Jorgensen 1868* (Argentina), holotype: GH
H. confertifolium var. *coldenioides* I. M. Johnst.—*Stanford 744* (Mexico), holotype: GH
H. cornutum I. M. Johnst.—*Hohenacker 82* (India), holotype: BM
H. cremnogenum I. M. Johnst.—*Hinton 8514* (Mexico), holotype: GH
H. curassavicum var. *argentinum* I. M. Johnst.—*Jorgensen 2243* (Argentina), holotype: GH
H. curassavicum var. *fruticulosum* I. M. Johnst.—*Ruiz Leal 18840* (Argentina), holotype: LL
H. elongatum var. *burchellii* I. M. Johnst.—*Burchell 8191* (Brazil), holotype: GH
H. eremogenum I. M. Johnst.—*Jaffuel 1120* (Chile), holotype: GH

H. erianthum I. M. Johnst.—*Weberbauer 6332* (Peru), holotype: GH
H. fallax I. M. Johnst.—*Skutch 1922* (Guatemala), holotype: GH
H. fallax var. *hintonii* I. M. Johnst.—*Hinton 3631* (Mexico), holotype: GH
H. ferreyrae I. M. Johnst.—*Ferreyra 6044* (Peru), holotype: A
H. formosanum I. M. Johnst.—*Henry 956* (Taiwan), holotype: NY
H. genovefae I. M. Johnst.—*Leonard 13851* (Haiti), holotype: US
H. huascoense I. M. Johnst.—*Lopez s.n.* (Chile), holotype: GH
H. jaffuellii I. M. Johnst.—*Jaffuel 2524* (Chile), holotype: GH
H. karwinskii I. M. Johnst.—*Karwinsky 646* (Mexico), holotype: LE
H. lobbii I. M. Johnst.—*Lobb s.n.* (Peru), holotype: K
H. mandonii I. M. Johnst.—*Mandon 387* (Bolivia), holotype: GH
H. margaritense Hassler ex I. M. Johnst.—*Hassler 10992* (Paraguay), holotype: B
H. michoacanum I. M. Johnst.—*Hinton 15069* (Mexico), holotype: GH
H. oxylobum I. M. Johnst.—*Pearce s.n.* (Peru), holotype: K
H. pallescens I. M. Johnst.—*Rojas in* Pl. Hassler Parag. no. 2477 (Paraguay), holotype: GH
H. philippianum I. M. Johnst.—*Johnston 5233* (Chile), holotype: GH
H. pilosum var. *albatum* I. M. Johnst.—*Ball s.n.* (Peru), holotype: K
H. piurense I. M. Johnst.—*Haught & Svenson 11553* (Peru), holotype: GH
H. polyanthellum I. M. Johnst.—*Weberbauer 6184* (Peru), holotype: F
H. purdei I. M. Johnst.—*Purdie s.n.* (Colombia), holotype: K
H. queretaroanum I. M. Johnst.—*Rose 9800* (Mexico), holotype: US
H. rufipilum var. *anadenum* I. M. Johnst.—*Hitchcock 19932* (Ecuador), holotype: GH
H. ruiz-lealii I. M. Johnst.—*Ruiz Leal* 18837 (Argentina), holotype: LL
H. schreiteri I. M. Johnst.—*Schreiter 3603* (Argentina), holotype: GH
H. sessei I. M. Johnst.—*Purpus 1402* (Mexico), holotype: GH
H. texanum I. M. Johnst.—*Lundell 14721* (Texas), holotype: GH
H. tiaridioides var. *schizocarpum* I. M. Johnst.—*Jorgensen 3242* (Argentina), holotype: GH
H. toratense I. M. Johnst.—*Weberbauer 7407* (Peru), holotype: F
H. wigginsii I. M. Johnst.—*Wiggins & Rollins 115* (Mexico), holotype: GH

Hexaptera (Brassicaceae)
H. macrocarpa I. M. Johnst.—*Johnston 6058* (Chile), holotype: GH

Hippocratea (Hippocrateaceae)
H. mitchellae I. M. Johnst.—*Mitchell 74* (Honduras), holotype: GH

Hofmeisteria (Asteraceae)
H. filifolia I. M. Johnst.—*Johnston 3418* (Baja California), holotype: CAS
H. pluriseta var. *pauciseta* I. M. Johnst.—*Johnston 3134* (Baja California), holotype: CAS

Hosackia (Fabaceae)
H. argophylla var. *decora* I. M. Johnst.—*Johnston 1278* (California), holotype: POM

Houstonia (Rubiaceae)
H. australis I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC
H. gracilenta I. M. Johnst.—*Johnston 3927* (Baja California), holotype: CAS

Hymenoxys (Asteraceae)
H. parodii I. M. Johnst.—*Parodi 8170a* (Argentina), holotype: GH

Hypericum (Clusiaceae)
H. eastwoodiamum I. M. Johnst.—*Mason 1614* (Revillagigedo), holotype: CAS

Hyptis (Lamiaceae)
H. emoryi var. *amplifolia* I. M. Johnst.—*Johnston 3852* (Baja California), holotype: CAS

Hysterionica (Asteraceae)
H. caurina I. M. Johnst.—*Parodi 9052* (Argentina), holotype: GH

Ilex (Aquifoliaceae)
I. ampla I. M. Johnst.—*Skutch 1320* (Guatemala), holotype: A
I. gracilipes I. M. Johnst.—*Skutch 1060* (Guatemala), holotype: A
I. quercetorum I. M. Johnst.—*Skutch 1663* (Guatemala), holotype: GH

Indigofera (Fabaceae)
I. argentata I. M. Johnst.—*Johnston 4036* (Baja California), holotype: CAS
I. latipinna I. M. Johnst.—*Curtis 360* (Angola), holotype: GH

Ipomoea (Convolvulaceae)
I. halierca I. M. Johnst.—*Mason 1553* (Revillagigedo), holotype: CAS

Jacaratia (Caricaceae)
J. costaricensis I. M. Johnst.—*Tonduz 12881* (Costa Rica), holotype: GH

Jacquemontia (Convolvulaceae)
J. eastwoodiana I. M. Johnst.—*Johnston 3742* (Baja California), holotype: CAS

Lactuca (Asteraceae)
L. tinctociliata I. M. Johnst.—*Curtis 283* (Angola), holotype: GH
L. varianii I. M. Johnst.—*Curtis 225* (Angola), holotype: GH

Lasiarrhenum (Boraginaceae), gen. nov.
L. lundellii I. M. Johnst.—*Lundell 12296* (Mexico), holotype: LL
L. pinetorum I. M. Johnst.—*Ghiesbreght 311* (Mexico), holotype: P

Lathyrus (Fabaceae)
L. lomanus I. M. Johnst.—*Johnston 5430* (Chile), holotype: GH

Leiphaimos (Gentianaceae)
L. stenoloba I. M. Johnst.—*Johnston 1116* (Panama), holotype: A

Leucophyllum (Scrophulariaceae)
L. candidum I. M. Johnst.—*Johnston & Mueller 160* (Mexico), holotype: GH
L. griseum I. M. Johnst.—*Johnston & Mueller 341* (Mexico), holotype: GH
L. pruinosum I. M. Johnst.—*Johnston 7569* (Mexico), holotype: GH
L. virescens I. M. Johnst.—*Shreve 9101* (Mexico), holotype: GH
L. zygophyllum I. M. Johnst.—*Mueller & Mueller 1299* (Mexico), holotype: GH

Linum (Linaceae)
L. cremnophila I. M. Johnst.—*Johnston 5707* (Chile), holotype: GH
L. parvum I. M. Johnst.—*Johnston 3549* (Peru), holotype: GH

Lithodora (Boraginaceae)
L. moroccana I. M. Johnst.—*Mauricio & Sennen 7946* (Morocco), holotype: BM

Lithospermum (Boraginaceae)
L. berlandieri I. M. Johnst.—*McVaugh 10517* (Mexico), holotype: GH
L. confine I. M. Johnst.—*H. Mueller* 2378 (Mexico), holotype: GH
L. hypoleucum I. M. Johnst.—*Arsene 2511* (Mexico), holotype: GH
L. indecorum I. M. Johnst.—*Mueller 2380* (Mexico), holotype: GH
L. jimulcense I. M. Johnst.—*Stanford 100* (Mexico), holotype: GH
L. lasiosiphon I. M. Johnst.—*Townsend & Barber 248* (Mexico), holotype: GH
L. macbridei I. M. Johnst.—*Macbride & Featherstone 1185* (Peru), holotype: F

L. mediale I. M. Johnst.—*Seler 2893* (Guatemala), holotype: GH
L. muelleri I. M. Johnst.—*Mueller 739* (Mexico), holotype: GH
L. obtusifolium I. M. Johnst.—*Schaffner 728* (Mexico), holotype: GH
L. parksii I. M. Johnst.—*McVaugh 7725* (Texas), holotype: GH
L. parksii var. *rugulosum* I. M. Johnst.—*Mueller 598* (Mexico), holotype: GH
L. pringlei I. M. Johnst.—*Pringle 12123* (Mexico), holotype: GH
L. seleri I. M. Johnst.—*Seler 847* (Mexico), holotype: GH
L. shepardae I. M. Johnst.—*Shepard 114* (Peru), holotype: GH

Lupinus (Fabaceae)
L. elatus I. M. Johnst.—*Johnston 1627* (California), holotype: UC

Lycium (Solanaceae)
L. leiospermum I. M. Johnst.—*Johnston 7611* (Mexico), holotype: GH
L. modestum I. M. Johnst.—*Johnston 7605* (Mexico), holotype: GH
L. penduliflorum I. M. Johnst.—*Johnston 6120* (Argentina), holotype: GH

Mabea (Euphorbiaceae)
M. macbridei I. M. Johnst.—*Macbride 5702* (Peru), holotype: F

Macromeria (Boraginaceae)
M. barbigera I. M. Johnst.—*Mueller 741* (Mexico), holotype: GH
M. guatemalensis I. M. Johnst.—*Steyermark 35898* (Guatemala), holotype: GH
M. leontis I. M. Johnst.—*Mueller 754* (Mexico), holotype: GH
M. notata I. M. Johnst.—*Mueller 830* (Mexico), holotype: GH

Macrosiphonia (Apocynaceae)
M. hesperia I. M. Johnst.—*Johnston 3807* (Baja California), holotype: CAS

Maharanga (Boraginaceae)
M. bhutanica I. M. Johnst.—*Ludlow 12598* (Bhutan), holotype: BM

Mahonia (Berberidaceae)
M. muelleri I. M. Johnst.—*Mueller & Mueller 803* (Mexico), holotype: GH

Malvastrum (Malvaceae)
M. arequipense I. M. Johnst.—*Hinkley 43a* (Peru), holotype: GH
M. catamarcense I. M. Johnst.—*Jörgensen 1388* (Argentina), holotype: GH
M. clementinum Munz & I. M. Johnst.—*Munz 6684* (California), holotype: POM
M. congestiflorum I. M. Johnst.—*Hinckley 37* (Peru), holotype: GH
M. gabrielense Munz & I. M. Johnst.—*Pierson 774* (California), holotype: POM
M. hinkleyorum I. M. Johnst.—*Hinkley 43* (Peru), holotype: GH
M. jorgensenii I. M. Johnst.—*Jörgensen 1389* (Argentina), holotype: GH
M. shepardae I. M. Johnst.—*Shepard 123* (Peru), holotype: GH

Margyricarpus (Rosaceae)
M. inermis I. M. Johnst.—*Venturi 6633* (Argentina), holotype: US
M. paucijugatus I. M. Johnst.—*Jörgensen 1143* (Argentina), holotype: GH

Mastigostyla (Iridaceae), gen. nov.
M. cyrtophylla I. M. Johnst.—*Hinkley 16* (Peru), holotype: GH

Mathwesia (Brassicaceae)
M. collina I. M. Johnst.—*Johnston 3599* (Chile), holotype: GH

Maurandya (Scrophulariaceae)
M. coccinea I. M. Johnst.—*Stewart 2742* (Mexico), holotype: GH
M. flaviflora I. M. Johnst.—*Johnston 3504* (Baja California), holotype: CAS

Maximowiczia (Cucurbitaceae)
M. sonorae var. *peninsularis* I. M. Johnst.—*Johnston 4026* (Baja California), holotype: CAS

Meliosma (Sabiaceae)
M. nesites I. M. Johnst.—*Mason 1627* (Revillagigedo), holotype: CAS

Mentzelia (Loasaceae)
M. hirsutissima var. *nesiotes* I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC
M. involucrata var. *megalantha* I. M. Johnst.—*Hall 5839* (California), holotype: UC
M. pachyrhiza I. M. Johnst.—*Johnston 7717* (Mexico), holotype: GH
M. tricuspis var. *brevicornuta* I. M. Johnst.—*K. Brandegee s.n.* (California), holotype: UC

Microula (Boraginaceae)
M. hirsuta I. M. Johnst.—*Rock 10439* (China), holotype: GH
M. rockii I. M. Johnst.—*Rock 14511* (Tibet), holotype: GH

Milla (Liliaceae)
M. bryani I. M. Johnst.—*Johnston 8529* (Mexico), holotype: GH

Misanteca (Lauraceae)
M. costaricensis I. M. Johnst.—*Brenes 14402* (Costa Rica), holotype: GH
M. peckii I. M. Johnst.—*Peck 826* (Belize), holotype: GH

Monardella (Lamiaceae)
M. lanceolata var. *glandulifera* I. M. Johnst.—*Johnston 2139* (California), holotype: GH
M. saxicola I. M. Johnst.—*Johnston 2133* (California), holotype: POM

Monina (Polygalaceae)
M. argentina I. M. Johnst.—*Parodi 7805* (Argentina), holotype: GH
M. ramosa I. M. Johnst.—*Hinkley 13* (Peru), holotype: GH

Moritzia (Boraginaceae)
M. dusenii I. M. Johnst.—*Dusen 17273* (Brazil), holotype: G

Mortonia (Celastraceae)
M. latisepala I. M. Johnst.—*Wynd & Mueller 100* (Mexico), holotype: GH

Muhlenbeckia (Polygonaceae)
M. dumosa I. M. Johnst.—*Hinkley 48* (Peru), holotype: GH

Muhlenbergia (Poaceae)
M. abata I. M. Johnst.—*Wright 1982* (Texas), holotype: GH
M. marshii I. M. Johnst.—*Marsh 746* (Mexico), holotype: GH
M. mundula I. M. Johnst.—*Pringle 417* (Mexico), holotype: GH

Nama (Hydrophyllaceae)
N. hispidum var. *gypsicola* I. M. Johnst.—*Johnston 7633* (Mexico), holotype: GH
N. serpylloides var. *confertum* I. M. Johnst.—*Johnston 7126* (Mexico), holotype: GH
N. stewartii I. M. Johnst.—*Johnston & Mueller 814* (Mexico), holotype: GH

Nerisyrenia (Brassicaceae)
N. gracilis I. M. Johnst.—*Johnston 7583* (Mexico), holotype: GH

Nicotiana (Solanaceae)
N. nesophila I. M. Johnst.—*Mason 1596* (Revillagigedo), holotype: CAS

Nolana (Nolanaceae)
N. arenicola I. M. Johnst.—*Werdermann 730* (Peru), holotype: GH
N. diffusa I. M. Johnst.—*Johnston 5384* (Chile), holotype: GH
N. guentheri I. M. Johnst.—*Guenther & Buchtien 113* (Peru), holotype: HBG

N. intonsa I. M. Johnst.—*Martens s.n.* (Chile), holotype: GH
N. jafuelii I. M. Johnst.—*Johnston 3604* (Chile), holotype: GH
N. latipes I. M. Johnst.—*Weberbauer 1498* (Peru), holotype: B
N. lycioides I. M. Johnst.—*Weberbauer 1517* (Peru), holotype: B
N. pallida I. M. Johnst.—*Weberbauer 7183* (Peru), holotype: B
N. pallidula I. M. Johnst.—*Werdermann 728* (Peru), holotype: GH
N. pearcei I. M. Johnst.—*Pearce s.n.* (Peru), holotype: K
N. pilosa I. M. Johnst.—*Guenther & Buchtien 117* (Peru), holotype: HBG
N. plicata I. M. Johnst.—*Weberbauer 7190* (Peru), holotype: GH
N. ramosissima I. M. Johnst.—*Johnston 5590* (Chile), holotype: GH
N. stenophylla I. M. Johnst.—*Johnston 5272* (Chile), holotype: GH
N. thinophila I. M. Johnst.—*Pennell 14280* (Peru), holotype: GH
N. weberbaueri I. M. Johnst.—*Weberbauer 5385* (Peru), holotype: GH
N. werdermannii I. M. Johnst.—*Werdermann 169* (Chile), holotype: GH

Nolina (Agavaceae)
N. micrantha I. M. Johnst.—*Johnston & Mueller 1326* (Mexico), holotype: GH

Nomosa (Boraginaceae), gen. nov.
N. rosei I. M. Johnst.—*Rose 2360* (Mexico), holotype: GH

Ochna (Ochnaceae)
O. angolensis I. M. Johnst.—*Curtis 158* (Angola), holotype: GH

Ochroma (Bombacaceae)
O. peruviana I. M. Johnst.—*Kanehira 354* (Peru), holotype: GH

Ocimum (Lamiaceae)
O. cuanzae I. M. Johnst.—*Curtis 342* (Angola), holotype: GH

Oenothera (Onagraceae)
O. arequipensis Munz & I. M. Johnst.—*Hitchcock 22403* (Peru), holotype: US
O. cardiophylla var. *splendens* Munz & I. M. Johnst.—*Grinell s.n.* (California), holotype: UC
O. featherstonei Munz & I. M. Johnst.—*Macbride & Featherstone 270* (Peru), holotype: F
O. fusiformis Munz & I. M. Johnst.—*Hitchcock 21350* (Ecuador), holotype: US
O. laciniata var. *limensis* Munz & I. M. Johnst.—*Macbride 5950* (Peru), holotype: F
O. verrucosa I. M. Johnst.—*Hinkley 17* (Peru), holotype: GH

Omphalodes (Boraginaceae)
O. erecta I. M. Johnst.—*Mueller 992* (Mexico), holotype: GH

Onosma (Boraginaceae)
O. adenopus I. M. Johnst.—*Yu 12909* (China), holotype: GH
O. barbigerum I. M. Johnst.—*Duthie 8682* (Baluchistan), holotype:
O. chitralicum I. M. Johnst.—*Toppin 481* (India), holotype: K
O. dumetorum I. M. Johnst.—*Yu 16629* (China), holotype: GH
O. egregium I. M. Johnst.—*Reid s.n.* (India), holotype: E
O. farrerii I. M. Johnst.—*Farrer 3* (China), holotype: GH
O. fistulosum I. M. Johnst.—*Yu 14385* (China), holotype: GH
O. hypoleucum I. M. Johnst.—*Falconer s.n.* (India), holotype: GH
O. kashmirica I. M. Johnst.—*Stewart 10053* (India), holotype: GH
O. khyberianum I. M. Johnst.—*Johnston 22* (India), holotype: E

O. limitaneum I. M. Johnst.—*Collector unknown 18927* (Baluchistan), holotype: DD
O. limitaneum var. *majus* I. M. Johnst.—*Griffith 5946* (Afghanistan), holotype: GH
O. limitaneum var. *parviflorum* I. M. Johnst.—*Griffith 5949* (Afghanistan), holotype: GH
O. mertensioides I. M. Johnst.—*Stevens 483* (China), holotype: GH
O. microstoma I. M. Johnst.—*Yu 17727* (China), holotype: GH
O. multiramosum var. *mekongense* I. M. Johnst.—*K. Ward 492* (China), holotype: E
O. tsiangii I. M. Johnst.—*Tsiang 11201* (China), holotype: GH
O. verruculosum I. M. Johnst.—*Dhwog 161* (Nepal), holotype: E
O. waddellii var. *brachylinum* I. M. Johnst.—*Norton 312* (China), holotype: K

Onosmodium (Boraginaceae)
O. dodrantale I. M. Johnst.—*Mueller 2259* (Mexico), holotype: GH

Oreomyrrhis (Apiaceae)
O. daucifolia I. M. Johnst.—*Skutch 1263* (Guatemala), holotype: GH
O. orizabae I. M. Johnst.—*Pringle 8546* (Mexico), holotype: GH
O. tolucana I. M. Johnst.—*Pringle 4236* (Mexico), holotype: GH

Pachylaena (Asteraceae)
P. rosea I. M. Johnst.—*Johnston 5897* (Chile), holotype: GH

Palaua (Malvaceae)
P. inconspicua I. M. Johnst.—*Johnston 3516* (Chile), holotype: GH

Pasithea (Liliaceae)
P. caerula var. *grandiflora* I. M. Johnst.—*Johnston 3608* (Chile), holotype: GH

Patima (Rubiaceae)
P. formicaria I. M. Johnst.—*Hitchcock 17348* (Guyana), holotype: GH

Pectis (Asteraceae)
P. incisifolia I. M. Johnst.—*Johnston 7824* (Mexico), holotype: GH

Pectocarya (Boraginaceae)
P. anomala I. M. Johnst.—*Hinkley 41* (Peru), holotype: GH
P. linearis var. *ferocula* I. M. Johnst.—*Munz 11846* (California), holotype: GH
P. peninsularis I. M. Johnst.—*Wiggins 4305* (Mexico), holotype: GH
P. recurvata I. M. Johnst.—*Harrison 6507* (Mexico), holotype: GH

Penstemon (Scrophulariaceae)
P. clevelandii var. *angelicus* I. M. Johnst.—*Johnston 3413* (Baja California), holotype: CAS
P. clevelandii var. *connatus* Munz & I. M. Johnst.—*Hall 2149* (California), holotype: UC
P. munzii I. M. Johnst.—*Munz, Johnston & Harwood 4271* (California), holotype: POM
P. peirsoni Munz & I. M. Johnst.—*Munz 6999* (California), holotype: POM

Periloba (Nolanaceae)
P. insularis I. M. Johnst.—*Murphy 3472* (Peru), holotype: BKL

Perityle (Asteraceae)
P. castillonii I. M. Johnst.—*Johnston & Mueller 1359* (Mexico), holotype: GH

Persea (Lauraceae)
P. hartmanii I. M. Johnst.—*Hartman 1029* (Mexico), holotype: GH
P. podadenia var. *glabriramea* I. M. Johnst.—*Botteri 81* (Mexico), holotype: GH

Petrogenia (Convolvulaceae), gen. nov.
P. repens I. M. Johnst.—*Johnston & Mueller 731* (Mexico), holotype: GH

Peucephyllum (Asteraceae)
P. schottii var. *latisetum* I. M. Johnst.—*Johnston 3644* (Baja California), holotype: CAS

Phacelia (Hydrophyllaceae)
P. gypsogenia I. M. Johnst.—*Johnston & Mueller 1266* (Mexico), holotype: GH
P. infundibuliformis var. *phanerandra* I. M. Johnst.—*Stewart 2241* (Mexico), holotype: GH
P. keckii Munz & I. M. Johnst.—*Munz 7056* (California), holotype: POM
P. pallida I. M. Johnst.—*Johnston 8486* (Mexico), holotype: GH
P. petiolata I. M. Johnst.—*Johnston 8040* (Mexico), holotype: GH
P. teucriifolia I. M. Johnst.—*Marsh 2120* (Mexico), holotype: GH

Philodendron (Araceae)
P. erlansonii I. M. Johnst.—*Johnston 967* (Panama), holotype: A
P. harlowii I. M. Johnst.—*Johnston 1030* (Panama), holotype: A

Phoebe (Lauraceae)
P. longipes I. M. Johnst.—*Pringle 8829* (Mexico), holotype: GH

Phorodendron (Loranthaceae)
P. flavum I. M. Johnst.—*Palmer 777* (Mexico), holotype: GH

Physalis (Solanaceae)
P. crassifolia var. *infundibularis* I. M. Johnst.—*Johnston 4203* (Baja California), holotype: CAS

Plagiobothrys (Boraginaceae)
P. californicus var. *fulvescens* I. M. Johnst.—*Brandegee s.n.* (California), holotype: GH
P. californicus var. *gracilis* I. M. Johnst.—*Brandegee 1658* (California), holotype: GH
P. foliosus I. M. Johnst.—*Stuardo s.n.* (Chile), holotype: IP, GH
P. glyptocarpus var. *modestus* I. M. Johnst.—*Heller 1322* (California), holotype: GH
P. gracilis var. *boliviana* I. M. Johnst.—*Asplund 3897* (Bolivia), holotype: US
P. gracilis var. *dimorpha* I. M. Johnst.—*Morong 1282* (Chile), holotype: GH
P. gracilis var. *platycarpa* I. M. Johnst.—*Pringle s.n.* (Arizona), holotype: GH
P. infectivus I. M. Johnst.—*Jared 28* (California), holotype: GH
P. macbridei I. M. Johnst.—*Macbride & Featherstone 599* (Peru), holotype: F
P. patagonicus I. M. Johnst.—*Moreno & Tonini 530* (Argentina), holotype: NY
P. penicillata var. *heterocarpa* I. M. Johnst.—*Munz & Keck 4804* (California), holotype: POM
P. setosa var. *aptera* I. M. Johnst.—*Abrams 3571* (California), holotype: GH
P. setosa var. *holoptera* I. M. Johnst.—*Johnston 6489* (California), holotype: POM
P. tener var. *fallax* I. M. Johnst.—*Austin s.n.* (California), holotype: GH
P. tener var. *subglaber* I. M. Johnst.—*Heller 1349a* (California), holotype: GH
P. torreyi var. *diffusus* I. M. Johnst.—*Heller 6986* (California), holotype: GH
P. torreyi var. *perplexans* I. M. Johnst.—*Purpus 5542* (California), holotype: GH

Polyachyrus (Asteraceae)
P. annuus I. M. Johnst.—*Johnston 3583* (Chile), holotype: GH
P. mollendoensis I. M. Johnst.—*Johnston 3538* (Peru), holotype: GH

P. nesites I. M. Johnst.—*Murphy 3467* (Peru), holotype: BKL
P. rigidus I. M. Johnst.—*Johnston 4700* (Chile), holotype: GH
P. virgatus I. M. Johnst.—*Johnston 5795* (Chile), holotype: GH

Polygala (Polygalaceae)
P. congestiflora I. M. Johnst.—*Curtis 419* (Angola), holotype: GH

Porlieria (Zygophyllaceae)
P. chilensis I. M. Johnst.—*Werdermann 919* (Chile), holotype: GH

Porophyllum (Asteraceae)
P. leptophyllum I. M. Johnst.—*Johnston 3373* (Baja California), holotype: CAS

Portulaca (Portulacaceae)
P. mundula I. M. Johnst.—*Johnston 7088* (Mexico), holotype: GH
P. peruviana I. M. Johnst.—*Pennell 13140* (Peru), holotype: GH
P. philippii I. M. Johnst.—*Johnston 5224* (Chile), holotype: GH

Protium (Burseraceae)
P. mcleodii I. M. Johnst.—*Johnston 557* (Panama), holotype: A

Prunus (Rosaceae)
P. guatemalensis I. M. Johnst.—*Skutch 504* (Guatemala), holotype: A
P. skutchii I. M. Johnst.—*Skutch 2077* (Guatemala), holotype: A

Pseudosmodingium (Anacardiaceae)
P. anomalum I. M. Johnst.—*Stanford, Retherford & Northcraft 73* (Mexico), holotype: GH

Psidium (Myrtaceae)
P. socorrense I. M. Johnst.—*Mason 1639* (Revillagigedo), holotype: CAS

Rhynchotropis (Fabaceae)
R. curtisiae I. M. Johnst.—*Curtis 814* (Kenya), holotype: GH

Rochelia (Boraginaceae)
R. laxa I. M. Johnst.—*Koelz 2946a* (India), holotype: GH

Roupala (Proteaceae)
R. brachybotrys I. M. Johnst.—*Hitchcock 21366* (Ecuador), holotype: GH
R. loxensis I. M. Johnst.—*Hitchcock 21414* (Ecuador), holotype: GH

Saccellium (Boraginaceae)
S. brasiliense I. M. Johnst.—*Malme 2759* (Brazil), holotype: B

Salix (Salicaceae)
S. taxifolia var. *limitanea* I. M. Johnst.—*Wright 669* (Texas), holotype: GH

Salpiglossis (Solanaceae)
S. albiflora I. M. Johnst.—*Weberbauer 7424a* (Peru), holotype: F
S. brachysiphon I. M. Johnst.—*Johnston 3625* (Chile), holotype: GH
S. cactorum I. M. Johnst.—*Johnston 5258* (Chile), holotype: GH
S. linearis I. M. Johnst.—*Pennell 13063* (Peru), holotype: GH

Sapium (Euphorbiaceae)
S. biloculare var. *amplum* I. M. Johnst.—*Johnston 3772* (Baja California), holotype: CAS

Sarcocca (Buxaceae)
S. guatemalensis I. M. Johnst.—*Skutch 288* (Guatemala), holotype: GH

Sartwellia (Asteraceae)
S. humilis I. M. Johnst.—*Johnston 7567* (Mexico), holotype: GH

Schinus (Anacardiaceae)
S. bumelioides I. M. Johnst.—*Venturi 9422* (Argentina), holotype: GH
S. gracilipes I. M. Johnst.—*Venturi 3887* (Argentina), holotype: GH
S. microphyllus I. M. Johnst.—*West 3747* (Peru), holotype: GH
S. piliferus I. M. Johnst.—*Venturi 9830* (Argentina), holotype: GH

Schizanthus (Solanaceae)
S. fallax I. M. Johnst.—*Johnston 3626* (Chile), holotype: GH

Scirpus (Cyperaceae)
S. bernardinus Munz & I. M. Johnst.—*Munz 6187* (California), holotype: POM

Securinega (Euphorbiaceae)
S. capensis I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC

Selenocarpus (Nyctaginaceae)
S. marshii I. M. Johnst.—*Marsh 1579* (Mexico), holotype: GH

Senecio (Asteraceae)
S. cremnophilus I. M. Johnst.—*Johnston 6107* (Argentina), holotype: GH
S. pelolepis I. M. Johnst.—*Johnston 6220* (Chile), holotype: GH
S. tinctolobus I. M. Johnst.—*Johnston 6072* (Chile), holotype: GH

Serjania (Sapindaceae)
S. nesites I. M. Johnst.—*Johnston 707* (Panama), holotype: A

Sida (Malvaceae)
S. nesogena I. M. Johnst.—*Mason 1613* (Revillagigedo), holotype: CAS

Sisyrinchium (Iridaceae)
S. eserrulatum I. M. Johnst.—*Bornmüller 236* in pt. (Brazil), holotype: GH
S. fiebrigii I. M. Johnst.—*Fiebrig 220* (Paraguay), holotype: GH
S. foliosum I. M. Johnst.—*Jörgensen 2299* (Argentina), holotype: GH
S. hoehnei I. M. Johnst.—*Hoehne S.B.S.P. no. 23057* (Brazil), holotype: GH
S. platense I. M. Johnst.—*Parodi 8171* (Argentina), holotype: GH
S. rosengurttii I. M. Johnst.—*Osten 22692* (Uruguay), holotype: GH
S. scariosum I. M. Johnst.—*Osten 22693* (Uruguay), holotype: GH
S. subnudum I. M. Johnst.—*Archer & Gehrt S.B.S.P. no. 36372* (Brazil), holotype: GH

Sloanea (Elaeocarpaceae)
S. ampla I. M. Johnst.—*Skutch 968* (Guatemala), holotype: GH
S. amplifrons I. M. Johnst.—*Linder 158* (Guyana), holotype: GH

Solanum (Solanaceae)
S. murphyi I. M. Johnst.—*Murphy 3219* (Peru), holotype: BKL
S. perattenuatum I. M. Johnst.—*Johnston 909* (Panama), holotype: A

Spergularia (Caryophyllaceae)
S. aberrans I. M. Johnst.—*Johnston 3631* (Chile), holotype: GH
S. collina I. M. Johnst.—*Johnston 3568* (Peru), holotype: GH
S. congestiflora I. M. Johnst.—*Johnston 3567* (Peru), holotype: GH
S. cremnophila I. M. Johnst.—*Johnston 5683* (Chile), holotype: GH

Spiraea (Rosaceae)
S. northcraftii I. M. Johnst.—*Stanford, Retherford & Northcraft 115* (Mexico), holotype: GH

Sphaeralcea (Malvaceae)
S. rosacea Munz & I. M. Johnst.—*Chittenden s.n.* (California), holotype: CAS

Spondias (Anacardiaceae)
S. purpurea var. *munita* I. M. Johnst.—*Johnston 573* (Panama), holotype: A

Sporobolus (Poaceae)
S. regis I. M. Johnst.—*Stewart 2653* (Mexico), holotype: GH

Stenophyllus (Cyperaceae)
S. nesioticus I. M. Johnst.—*Anthony 317* (Revillagigedo Islands), holotype: UC

Stephanomeria (Asteraceae)
S. blairi Munz & I. M. Johnst.—*Blair s.n.* (California), holotype: POM

Struthanthus (Loranthaceae)
S. haenkei var. *angustatus* I. M. Johnst.—*Johnston 4331* (Baja California), holotype: CAS
S. hunnewellii I. M. Johnst.—*Hunnewell 11854* (Mexico), holotype: GH

Suaeda (Chenopodiaceae)
S. duripes I. M. Johnst.—*Thurber 114* (Mexico), holotype: GH
S. jacoensis I. M. Johnst.—*Stewart & Johnston 1975* (Mexico), holotype: GH
S. nigrescens I. M. Johnst.—*Johnston 7650* (Mexico), holotype: GH
S. nigrescens var. *glabra* I. M. Johnst.—*Waterfall 3993a* (Texas), holotype: GH
S. suffrutescens var. *detonsa* I. M. Johnst.—*Johnston 7128* (Mexico), holotype: GH

Sympetaleia (Loasaceae)
S. tenella I. M. Johnst.—*Johnston 3901* (Baja California), holotype: CAS

Symphostemon (Lamiaceae)
S. articulatus I. M. Johnst.—*Curtis 309* (Angola), holotype: GH

Talinum (Portulacaceae)
T. whitei I. M. Johnst.—*White 2440* (Mexico), holotype: GH

Taraxacum (Asteraceae)
T. californicum Munz & I. M. Johnst.—*Pierce 101* (California), holotype: POM

Tetraclea (Lamiaceae)
T. subinclusa I. M. Johnst.—*Johnston 8504* (Mexico), holotype: GH

Tetragonia (Aizoaceae)
T. tenella I. M. Johnst.—*Johnston 5677* (Chile), holotype: GH
T. vestita I. M. Johnst.—*Johnston 3553* (Peru), holotype: GH

Tetrapteris (Malpighiaceae)
T. macrocarpa I. M. Johnst.—*Johnston 58* (Panama), holotype: A

Thamnosma (Rutaceae)
T. stanfordii I. M. Johnst.—*Stanford, Retherford & Northcraft 16* (Mexico), holotype: GH
T. trifoliata I. M. Johnst.—*Johnston 3892* (Baja California), holotype: CAS

Tidestromia (Amaranthaceae)
T. gemmata I. M. Johnst.—*Johnston 9363* (Mexico), holotype: GH
T. rhizomatosa I. M. Johnst.—*Johnston 8873* (Mexico), holotype: GH
T. suffruticosa var. *coahuilana* I. M. Johnst.—*Johnston & Mueller 1014* (Mexico), holotype: GH
T. tenella I. M. Johnst.—*Johnston 7822* (Mexico), holotype: GH

Tigridia (Iridaceae)
T. philippiana I. M. Johnst.—*Johnston 5757* (Chile), holotype: GH

Tournefortia (Boraginaceae)
T. gracilipes I. M. Johnst.—*Steyermark 61863* (Venezuela), holotype: F

T. lilloi I. M. Johnst.—*Lillo 7099* (Argentina), holotype: GH
T. luzonica I. M. Johnst.—*Adduru 237* (Philippines), holotype: A
T. luzonica var. *sublucens* I. M. Johnst.—*Ramos 44553* (Philippines), holotype: A
T. paniculata var. *austrina* I. M. Johnst.—*Lillo 3032M* (Argentina), holotype: GH
T. puberula var. *kirkii* I. M. Johnst.—*Kirk 3* (Comores), holotype: K
T. romeroi I. M. Johnst.—*Romero-Castañeda 3317* (Colombia), holotype: A

Trigonotis (Boraginaceae)
T. abata I. M. Johnst.—*Brass 9838* (Dutch New Guinea), holotype: GH
T. archboldii I. M. Johnst.—*Brass 4024* (British New Guinea), holotype: GH
T. ciliolata I. M. Johnst.—*Kanehira 13883* (Dutch New Guinea), holotype: A
T. compressa I. M. Johnst.—*Fang 1111* (China), holotype: GH
T. contortipes I. M. Johnst.—*Rock 10637* (China), holotype: GH
T. cupulifera I. M. Johnst.—*Tsiang 9931* (China), holotype: GH
T. floribunda I. M. Johnst.—*Sun 877* (China), holotype: GH
T. gracilipes I. M. Johnst.—*Rock 17867* (China), holotype: GH
T. laxa I. M. Johnst.—*Fang 1348* (China), holotype: GH
T. macrophylla var. *verrucosa* I. M. Johnst.—*Ching 5888* (China), holotype: NY
T. muriculata I. M. Johnst.—*Maire s.n.* (China), holotype: P-DEL
T. pleiomera I. M. Johnst.—*Clemens 5989* (New Guinea), holotype: GH
T. rockii I. M. Johnst.—*Rock 5256* (China), holotype: GH
T. rotundata I. M. Johnst.—*Forrest 20519* (China), holotype: E
T. tenera I. M. Johnst.—*Cheo 312* (China), holotype: GH

Triumfetta (Tiliaceae)
T. glabrata I. M. Johnst.—*Curtis 231* (Angola), holotype: GH
T. panamensis I. M. Johnst.—*Johnston 1112* (Panama), holotype: GH

Tropaeolum (Tropaeolaceae)
T. leptocera I. M. Johnst.—*Johnston 3597* (Chile), holotype: GH

Vauquelinia (Rosaceae)
V. heterodon I. M. Johnst.—*Johnston 7217* (Mexico), holotype: GH
V. retherfordii I. M. Johnst.—*Stanford, Retherford & Northcraft 87* (Mexico), holotype: GH

Verbena (Verbenaceae)
V. juniperina var. *grisea* I. M. Johnst.—*Hinkley 76* (Peru), holotype: GH

Verbesina (Asteraceae)
V. oligocephala I. M. Johnst.—*Johnston 3899* (Baja California), holotype: CAS

Viscainoa (Zygophyllaceae)
V. geniculata var. *pinnata* I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC

Wendtia (Geraniaceae)
W. miniata I. M. Johnst.—*Parodi 7821* (Argentina), holotype: GH

Zinnia (Asteraceae)
Z. oligantha I. M. Johnst.—*Johnston 7821* (Mexico), holotype: GH

APPENDIX 3. TYPES OF IVAN M. JOHNSTON BY COLLECTOR

COLLECTOR UNKNOWN
18927—*Onosma limitaneum* I. M. Johnst.
ABBOTT, R. Q.
211—*Brongniartia abbottiae* I. M. Johnst.
ABRAMS, L.
3139—*Cryptantha abramsii* I. M. Johnst.
3571—*Plagiobothrys setosa* var. *aptera* I. M. Johnst.
ADDURU, M.
237—*Tournefortia luzonica* I. M. Johnst.
ANDRÉ, K.
820—*Fuchsia andrei* I. M. Johnst.
ANTHONY, A. W.
s.n.—*Calliandra socorrensis* I. M. Johnst.
s.n.—*Cyperus duripes* I. M. Johnst.
317—*Stenophyllus nesioticus* I. M. Johnst.
ARCHER, W. A.
S.B.S.P. no. 36372—*Sisyrinchium subnudum* I. M. Johnst.
ARSENE, BROTHER
2511—*Lithospermum hypoleucum* I. M. Johnst.
ASPLUND, E.
3897—*Plagiobothrys gracilis* var. *bolivianum* I. M. Johnst.
6132—*Astragalus asplundii* I. M. Johnst.
6134—*Astragalus crymophilus* I. M. Johnst.
AUSTIN, R.
s.n.—*Plagiobothrys tener* var. *fallax* I. M. Johnst.
BAKER, M. S.
7629—*Cryptantha milobakeri* I. M. Johnst.
BALL, J. N.
s.n.—*Fagonia cretia* var. *canariensis* I. M. Johnst.
s.n.—*Heliotropium pilosum* var. *albatum* I. M. Johnst.
BANG, M.
674—*Fuchsia furfuracea* I. M. Johnst.
BARTLETT, H. H.
10242—*Amyris cordata* I. M. Johnst.
BENT, J. T.
21—*Echiochilon jugatum* I. M. Johnst.
BLAIR, E. G.
s.n.—*Stephanomeria blairi* Munz & I. M. Johnst.
BORNMÜLLER, A.
236 in pt.—*Sisyrinchium eserrulatum* I. M. Johnst.
BOTTERI, M.
81—*Persea podadenia* var. *glabriramea* I. M. Johnst.
BRANDEGEE, K.
s.n.—*Mentzelia tricuspis* var. *brevicornuta* I. M. Johnst.
BRANDEGEE, T. S.
s.n.—*Condalia parryi* var. *microphylla* I. M. Johnst.
s.n.—*Cryptantha brandegei* I. M. Johnst.
s.n.—*Ephedra peninsularis* I. M. Johnst.
s.n.—*Houstonia australis* I. M. Johnst.
s.n.—*Mentzelia hirsutissima* var. *nesiotes* I. M. Johnst.
s.n.—*Plagiobotyrys californicus* var. *fulvescens* I. M. Johnst.
s.n.—*Securinega capensis* I. M. Johnst.
s.n.—*Viscainoa geniculata* var. *pinnata* I. M. Johnst.
1658—*Plagiobothrys californicus* var. *gracilis* I. M. Johnst.
BRASS, L. J.
4024—*Trigonotis archboldii* I. M. Johnst.
4178—*Havilandia opaca* I. M. Johnst.
5681—*Havilandia robusta* I. M. Johnst.
9838—*Trigonotis abata* I. M. Johnst.
BRENES, A. M.
14402—*Misanteca costaricensis* I. M. Johnst.
BURCHELL, W. J.
8191—*Heliotropium elongatum* var. *burchellii* I. M. Johnst.
BURKART, A. E.
5385—*Astragalus flavocreatus* I. M. Johnst.
5407—*Astraglaus crypticus* I. M. Johnst.
7360—*Astragalus parodii* I. M. Johnst.
CERRATE, E.
565—*Cordia lippioides* I. M. Johnst.
1294—*Cordia munda* I. M. Johnst.
CHANEY, R. W.
195—*Craniospermum mongolicum* I. M. Johnst.

CHAPIN, J. P.
1104—*Atriplex chapinii* I. M. Johnst.
CHASE, A.
7461—*Cordia passa* I. M. Johnst.
CHEO, T. Y.
312—*Trigonotis tenera* I. M. Johnst.
CHING, R. C.
5888—*Trigonotis macrophylla* var. *verrucosa* I. M. Johnst.
CHITTENDEN, A. B.
s.n.—*Sphaeralcea rosacea* I. M. Johnst.
CHUN, N. K.
44626—*Ehretia hainanensis* I. M. Johnst.
CLAUSSEN, J. C.
s.n.—*Cordia axillaris* var. *gymnocarpa* I. M. Johnst.
CLEMENS, J.
5989—*Trigonotis pleiomera* I. M. Johnst.
CLOKEY, I. W.
6859—*Cryptantha clokeyi* I. M. Johnst.
COLLENETTE, C. N.
196—*Echiochilon collenettei* I. M. Johnst.
CONGDON, J. W.
C59—*Cryptantha mariposae* I. M. Johnst.
COOPER, G. P.
244—*Cordia protracta* I. M. Johnst.
CORRELL, D. S.
19872—*Cryptantha gypsites* I. M. Johnst.
CORY, V. L.
s.n.—*Cryptantha coryi* I. M. Johnst.
8491—*Aristolochia coryi* I. M. Johnst.
18613—*Cryptantha crassipes* I. M. Johnst.
CURTIS, A. G.
158—*Ochna angolensis* I. M. Johnst.
186—*Cryptosepalum curtisiorum* I. M. Johnst.
211—*Crotalaria bicolor* I. M. Johnst.
225—*Lactuca varianii* I. M. Johnst.
230—*Dolichos linearifolius* I. M. Johnst.
231—*Triumfetta glabrata* I. M. Johnst.
258—*Ekebergia pumila* I. M. Johnst.
283—*Lactuca tinctociliata* I. M. Johnst.
309—*Symphostemon articulatus* I. M. Johnst.
321—*Aeschynomene curtisiae* I. M. Johnst.
333—*Acrospira curtisiae* I. M. Johnst.
342—*Ocimum cuanzae* I. M. Johnst.
360—*Indigofera latipinna* I. M. Johnst.
419—*Polygala congestiflora* I. M. Johnst.
428—*Brachystegia russelliae* I. M. Johnst.
814—*Rhynchotropis curtisiae* I. M. Johnst.
DAUBENMIRE, R. F.
46289—*Dasynotus daubenmirei* I. M. Johnst.
DAVIDSON, A.
s.n.—*Galium angustifolium* var. *pinetorum* Munz & I. M. Johnst.
DHWOG, L.
161—*Onosma verruculosum* I. M. Johnst.
DUGES, A. A. D.
s.n.—*Condalia velutina* I. M. Johnst.
DUNLAP, V. C.
284—*Cordia lucidula* I. M. Johnst.
DUSEN, P. K. H.
17273—*Moritzia dusenii* I. M. Johnst.
DUTHIE, J. F.
8682—*Onosma barbigerum* I. M. Johnst.
EASTWOOD, A.
8593—*Hackelia longituba* I. M. Johnst.
ERLANSON, C. O.
369—*Casearia stjohnii* I. M. Johnst.
FALCONER, H.
s.n.—*Onosma hypoleucum* I. M. Johnst.
FANG, W. P.
1111—*Trigonotis compressa* I. M. Johnst.
1348—*Trigonotis laxa* I. M. Johnst.
FARRER, R.
3—*Onosma farrerii* I. M. Johnst.
FERREYRA, R.
2506—*Coldenia ferreyrae* I. M. Johnst.
6044—*Heliotropium ferreyrae* I. M. Johnst.
FIEBRIG, K.
220—*Sisyrinchium fiebrigii* I. M. Johnst.
2608—*Astragalus deminutivus* I. M. Johnst.
FISCHER, W.
20—*Cercidium australe* I. M. Johnst.
99—*Astragalus pauranthus* I. M. Johnst.
FORREST, G.
20519—*Trigonotis rotundata* I. M. Johnst.
26357—*Ehretia confinis* I. M. Johnst.
GANDER, F.
5328—*Cryptantha ganderi* I. M. Johnst.
GARDNER, G.
5126—*Cordia gardneri* I. M. Johnst.
GAY, C.
1921—*Cryptantha gayi* I. M. Johnst.

GENTRY, H. S.
10878—*Cordia lauta* I. M. Johnst.
GHIESBREGHT, A. B.
311—*Lasiarrhenum pinetorum* I. M. Johnst.
GLAZIOU, A. F. M.
1106—*Cordia latiloba* I. M. Johnst.
GLOVER, P. E.
1181—*Echiochilon adenophorum* I. M. Johnst.
GRAHAM, E. H.
7924—*Cryptantha grahamii* I. M. Johnst.
GRENINGER, M. O'C.
18—*Cristaria adenophora* I. M. Johnst.
GRIFFITH, W.
5946—*Onosma limitianeum* var. *majus* I. M. Johnst.
5949—*Onosma limitianeum* var. *parviflorum* I. M. Johnst.
GRINNELL, J.
s.n.—*Oenothera cardiophylla* var. *splendens* Munz & I. M. Johnst.
GUENTHER, E.
113—*Nolana guentheri* I. M. Johnst.
117—*Nolana pilosa* I. M. Johnst.
155—*Coldenia conspicua* I. M. Johnst.
1081—*Astragalus confinis* I. M. Johnst.
HALL, H. M.
2149—*Penstemon clevelandii* var. *connatus* Munz & I. M. Johnst.
5839—*Mentzelia involucrata* var. *megalantha* I. M. Johnst.
6925—*Cryptantha inaequata* I. M. Johnst.
7034—*Cryptantha racemosa* var. *lignosa* I. M. Johnst.
HARDING, J. E.
s.n.—*Bargemontia deflexa* I. M. Johnst.
HARRIS, W.
8732—*Cordia jamaicensis* I. M. Johnst.
HARRISON, G. J.
6507—*Pectocarya recurvata* I. M. Johnst.
HARTMAN, C. V.
1029—*Persea hartmanii* I. M. Johnst.
HARVARD, V.
26—*Gnaphalium texanum* I. M. Johnst.
HASSLER, E.
10992—*Heliotropium margaritense* I. M. Johnst.
HAUGHT, O. L.
11553—*Heliotropium piurense* I. M. Johnst.
HAYES, S
624—*Cordia cordiformis* I. M. Johnst.
HELLER, A. A.
1322—*Plagiobothrys glyptocarpus* var. *modestus* I. M. Johnst.
1349a—*Plagiobothrys tener* var. *subglaber* I. M. Johnst.
6986—*Plagiobothrys torreyi* var. *diffusus* I. M. Johnst.
8281—*Gilia inyoensis* I. M. Johnst.
HENRY, A.
956—*Heliotropium formosanum* I. M. Johnst.
HIERONYMUS, G. H. E. W.
482—*Astragalus famatinae* I. M. Johnst.
HINKLEY, F. E.
7—*Euphorbia hinkleyorum* I. M. Johnst.
13—*Monnina ramosa* I. M. Johnst.
16—*Mastigostyla cyrtophylla* I. M. Johnst.
17—*Oenothera verrucosa* I. M. Johnst.
25—*Gilia chachanensis* I. M. Johnst.
35—*Calandrinia adenosperma* I. M. Johnst.
37—*Malvastrum congestiflorum* I. M. Johnst.
41—*Pectocarya anomala* I. M. Johnst.
43—*Malvastrum hinkleyorum* I. M. Johnst.
43a—*Malvastrum arequipense* I. M. Johnst.
48—*Muhlenbeckia dumosa* I. M. Johnst.
76—*Verbena juniperina* var. *grisea* I. M. Johnst.
HINTON, G. H.
3631—*Heliotropium falax* var. *hintonii* I. M. Johnst.
7740—*Cordia hintonii* I. M. Johnst.
8156—*Cordia coyucana* I. M. Johnst.
8514—*Heliotropium cremnogenum* I. M. Johnst.
10866—*Bourreria hintonii* I. M. Johnst.
13834—*Bourreria superba* I. M. Johnst.
14826—*Cordia gracilipes* I. M. Johnst.
15066—*Cordia subvelutina* I. M. Johnst.
15069—*Heliotropium michoacanum* I. M. Johnst.
15098—*Bourreria longiflora* I. M. Johnst.

HITCHCOCK, C. L.
428a—*Amaranthus arenicola* I. M. Johnst.
17348—*Patima formicaria* I. M. Johnst.
17563—*Cordia fallax* I. M. Johnst.
19932—*Heliotropium rufipilum* var. *anadenum* I. M. Johnst.
21311—*Euplassa occidentalis* I. M. Johnst.
21350—*Oenothera fusiformis* Munz & I. M. Johnst.
21366—*Roupala brachybotrys* I. M. Johnst.
21414—*Roupala loxensis* I. M. Johnst.
21440—*Fuchsia hypoleuca* I. M. Johnst.
21603—*Fuchsia htchcockii* I. M. Johnst.
21667—*Fuchsia apiculata* I. M. Johnst.
21750—*Fuchsia glaberrima* I. M. Johnst.
22403—*Oenothera arequipensis* I. M. Johnst.
HOEHNE. F. C.
S.B.S.P. no. 23057—*Sisyrinchium hoehnei* I. M. Johnst.
HOFFMANN, R.
78—*Cryptantha hoffmannii* I. M. Johnst.
HOHENACKER, E.
82—*Heliotropium cornutum* I. M. Johnst.
HOLTON, I. F.
892—*Fuchsia perbrevis* I. M. Johnst.
HOOVER, R. F.
558—*Cryptantha hooveri* I. M. Johnst.
2169—*Cryptantha spithamaea* I. M. Johnst.
4193—*Cryptantha crymophila* I. M. Johnst.
HUBBY
21— *Cryptantha decipiens* var. *corollata* I. M. Johnst.
HUNNEWELL, F. W.
11854—*Struthanthus hunnewellii* I. M. Johnst.
JAEGER, E. C.
251—*Eriogonum nodusum* var. *jaegeri* Munz & I. M. Johnst.
JAFFUEL, F.
228—*Adesmia pirionii* I. M. Johnst.
1120—*Heliotropium eremogenum* I. M. Johnst.
2524—*Heliotropium jaffuellii* I. M. Johnst.
JARED, L.
28— *Plagiobothrys infectivus* I. M. Johnst.
JOHNSTON, H. H.
22— *Onosma khyberianum* I. M. Johnst.
JOHNSTON, I. M. (SEE ALSO I. M. JOHNSTON AND C. H. MUELLER)
58—*Tetrapteris macrocarpa* I. M. Johnst.
230—*Coccoloba waitii* I. M. Johnst.
389—*Ficus bullenei* I. M. Johnst.
539—*Bauhinia thompsonii* I. M. Johnst.
557—*Protium mcleodii* I. M. Johnst.
567—*Drymaria lyropetala* var. *coahuilana* I. M. Johnst.
573—*Spondias purpurea* var. *munita* I. M. Johnst.
707—*Serjania nesites* I. M. Johnst.
721—*Ficus campbellii* I. M. Johnst.
909—*Solanum perattenuatum* I. M. Johnst.
967—*Philodendron erlansonii* I. M. Johnst.
1012—*Ficus leavensii* var. *thinophila* I. M. Johnst.
1030—*Philodendron harlowii* I. M. Johnst.
1112—*Triumfetta panamensis* I. M. Johnst.
1116—*Leiphaimos stenoloba* I. M. Johnst.
1125—*Ficus leavensii* I. M. Johnst.
1278—*Hosackia argophylla* var. *decora* I. M. Johnst.
1627—*Lupinus elatus* I. M. Johnst.
1692—*Eriogonum umbellatum* var. *minus* I. M. Johnst.
2067—*Galium hallii* Munz & I. M. Johnst.
2133—*Monardella saxicola* I. M. Johnst.
2137—*Corethroegyne filaginifolia* var. *pinetorum* I. M. Johnst.
2139—*Morardella lanceolata* var. *glandulifera* I. M. Johnst.
2833—*Asclepias eriocarpa* var. *microcarpa* Munz & I. M. Johnst.
3028—*Condalia globosa* I. M. Johnst.
3043—*Agave sleviniana* I. M. Johnst.
3085—*Agave oweni* I. M. Johnst.
3123—*Agave chrysoglossa* I. M. Johnst.
3134—*Hofmeisteria pleuriseta* var. *pauciseta* I. M. Johnst.
3195—*Carlowrightia californica* var. *pallida* I. M. Johnst.
3201—*Condalia globosa* var. *pubescens* I. M. Johnst.
3315—*Eriogonum galioides* I. M. Johnst.
3373—*Porophyllum leptophyllum* I. M. Johnst.

3413—*Penstemon clevelandii* var. *angelicus* I. M. Johnst.
3418—*Hofmeisteria filifolia* I. M. Johnst.
3496—*Colubrina californica* I. M. Johnst.
3504—*Maurandya flaviflora* I. M. Johnst.
3505—*Cryptantha fastigiata* I. M. Johnst.
3516—*Palaua inconspicua* I. M. Johnst.
3529—*Aplopappus arenaris* var. *incisifolius* I. M. Johnst.
3532—*Fagonia densa* I. M. Johnst.
3538—*Polyachyrus mollendoensis* I. M. Johnst.
3549—*Linum parvum* I. M. Johnst.
3553—*Tetragonia vestita* I. M. Johnst.
3567—*Spergularia congestifolia* I. M. Johnst.
3568—*Spergularia collina* I. M. Johnst.
3583—*Polyachyrus annuus* I. M. Johnst.
3589—*Calandrinia chrysantha* I. M. Johnst.
3591—*Calandrinia cephalophora* I. M. Johnst.
3597—*Tropaeolum leptoceras* I. M. Johnst.
3599—*Mathewsia collina* I. M. Johnst.
3603—*Bargemontia tocopillensis* I. M. Johnst.
3604—*Nolana jaffuelii* I. M. Johnst.
3608—*Pasithea caerula* var. *grandiflora* I. M. Johnst.
3617—*Coldenia cuspidata* I. M. Johnst.
3625—*Salpiglossis brachysiphon* I. M. Johnst.
3626—*Schizanthus fallax* I. M. Johnst.
3627—*Aplopappus arenarius* var. *rossii* I. M. Johnst.
3631—*Spergularia aberrans* I. M. Johnst.
3644—*Peucephyllum schottii* var. *latisetum* I. M. Johnst.
3705—*Ephedra wraithiana* I. M. Johnst.
3731—*Coldenia canescens* var. *subnuda* I. M. Johnst.
3742—*Jacquemontia eastwoodiana* I. M. Johnst.
3772—*Sapium biloculare* var. *amplum* I. M. Johnst.
3807—*Macrosiphonia hesperia* I. M. Johnst.
3852—*Hyptis emoryi* var. *amplifolium* I. M. Johnst.
3877—*Cercidium molle* I. M. Johnst.
3881—*Acacia brandegeana* I. M. Johnst.
3892—*Thamnosma trifoliata* I. M. Johnst.
3899—*Verbesina oligocephala* I. M. Johnst.
3901—*Sympetaleia tenella* I. M. Johnst.
3927—*Houstonia gracilenta* I. M. Johnst.
3947—*Cryptantha grayi* var. *nesiotica* I. M. Johnst.
4026—*Maximowiczia sonorae* var. *peninsularis* I. M. Johnst.
4036—*Indigofera argentata* I. M. Johnst.
4136—*Euphorbia chamberlini* I. M. Johnst.
4145—*Cyperus dioicus* I. M. Johnst.
4203—*Physalis crassifolia* var. *infundibularis* I. M. Johnst.
4221—*Cryptantha angelica* I. M. Johnst.
4272—*Bargemontia glauca* I. M. Johnst.
4304—*Euphorbia ceroderma* I. M. Johnst.
4331—*Struthanthus haenkei* var. *angustatus* I. M. Johnst.
4377—*Asclepias leptopus* I. M. Johnst.
4700—*Polyachrus rigidus* I. M. Johnst.
4744—*Cristaria glomerata* I. M. Johnst.
4770—*Bargemontia glauca* I. M. Johnst.
4927—*Cardamine cremnophila* I. M. Johnst.
5121—*Cryptantha taltalensis* I. M. Johnst.
5224—*Portulaca philippii* I. M. Johnst.
5233—*Heliotropium philippianum* I. M. Johnst.
5239—*Atriplex clivicola* I. M. Johnst.
5258—*Salpiglossis cactorum* I. M. Johnst.
5267—*Cristaria intonsa* I. M. Johnst.
5270—*Cristaria leucantha* I. M. Johnst.
5272—*Nolana stenophylla* I. M. Johnst.
5284—*Calandrinia taltalensis* I. M. Johnst.
5317—*Calandrinia lamprosperma* I. M. Johnst.
5329—*Baccharis taltalensis* I. M. Johnst.
5352—*Adesmia diaziana* I. M. Johnst.
5353—*Astragalus melanogonotus* I. M. Johnst.
5359—*Cristeria thinophila* I. M. Johnst.
5365—*Cristaria diaziana* I. M. Johnst.
5372—*Bipinnula taltalensis* I. M. Johnst.
5379—*Cristaria taltalensis* I. M. Johnst.

5384—*Nolana diffusa* I. M. Johnst.
5394—*Dioscorea cylindrostachya* I. M. Johnst.
5428—*Adesmia gracillima* I. M. Johnst.
5430—*Lathyrus lomanus* I. M. Johnst.
5467—*Argylia sitiens* I. M. Johnst.
5470—*Calandrinia sitiens* I. M. Johnst.
5490—*Adesmia viscidissima* I. M. Johnst.
5502—*Cristeria paposana* I. M. Johnst.
5550—*Bowlesia paposana* I. M. Johnst.
5586—*Astragalus paposanus* I. M. Johnst.
5590—*Nolana ramosissima* I. M. Johnst.
5677—*Tetragonia tenella* I. M. Johnst.
5683—*Spergularia cremnophylla* I. M. Johnst.
5686—*Cristaria fuentesiana* I. M. Johnst.
5689—*Domeykoa perennis* I. M. Johnst.
5707—*Linum cremnophilum* I. M. Johnst.
5757—*Tigridia philippianum* I. M. Johnst.
5766—*Atriplex clivicola* var. *lopholepis* I. M. Johnst.
5779—*Chiropetalum cremnophilum* I. M. Johnst.
5795—*Polyachyrus virgatus* I. M. Johnst.
5814—*Cryptantha argentea* I. M. Johnst.
5819—*Cristaria formulosa* I. M. Johnst.
5897—*Pachylaena rosea* I. M. Johnst.
6033—*Astragalus valerianensis* I. M. Johnst.
6058—*Hexaptera macrocarpa* I. M. Johnst.
6067—*Euphrasia adenonota* I. M. Johnst.
6072—*Senecio tinctolobus* I. M. Johnst.
6107—*Senecio cremnophilus* I. M. Johnst.
6117—*Adesmia glanduligera* I. M. Johnst.
6120—*Lycium penduliflorum* I. M. Johnst.
6128—*Astragalus pulviniformis* I. M. Johnst.
6148—*Atriplex transandina* I. M. Johnst.
6168—*Atriplex hypsophila* I. M. Johnst.
6220—*Senecio pelolepis* I. M. Johnst.
6307—*Bargemontia clivicola* I. M. Johnst.
6489—*Plagiobothrys setosa* var. *holoptera* I. M. Johnst.
7015—*Condalia viridis* I. M. Johnst.
7088—*Portulaca mundula* I. M. Johnst.
7126—*Nama serphlliodes* var. *confertum* I. M. Johnst.
7128—*Suaeda suffrutescens* var. *detonsa* I. M. Johnst.
7217—*Vauquelinia heterodon* I. M. Johnst.
7567—*Sartwellia flaveriae* I. M. Johnst.
7569—*Leucophyllum pruinosum* I. M. Johnst.
7583—*Nerisyrenia gracilis* I. M. Johnst.
7593—*Condalia fasciculata* I. M. Johnst.
7594—*Drymaria lyropetala* I. M. Johnst.
7605—*Lycium modestum* I. M. Johnst.
7611—*Lycium leiospermum* I. M. Johnst.
7614—*Frankenia gypsophila* I. M. Johnst.
7617—*Atriplex abata* I. M. Johnst.
7633—*Nama hispidum* var. *gypsicola* I. M. Johnst.
7650—*Suaeda nigrescens* I. M. Johnst.
7717—*Mentzelia pachyrhiza* I. M. Johnst.
7815—*Fouquieria shrevei* I. M. Johnst.
7821—*Zinnia oligantha* I. M. Johnst.
7822—*Tidestromia tenella* I. M. Johnst.
7823—*Drymaria elata* I. M. Johnst.
7824—*Pectis incisifolia* I. M. Johnst.
7986—*Aristolochia wrightii* var. *texana* I. M. Johnst.
8040—*Phacelia petiolata* I. M. Johnst.
8428—*Dasylirion heteracanthum* I. M. Johnst.
8486—*Phacelia pallida* I. M. Johnst.
8489—*Drymaria subumbellata* I. M. Johnst.
8504—*Tetraclea subinclusa* I. M. Johnst.
8529—*Milla bryani* I. M. Johnst.
8873—*Tidestromia rhizomatosa* I. M. Johnst.
8886—*Amaranthus warnockii* I. M. Johnst.
8877—*Atriplex prosopidum* I. M. Johnst.
9010—*Abies coahuilensis* I. M. Johnst.
9363—*Tidestromia gemmata* I. M. Johnst.

JOHNSTON, I. M. AND C. H. MUELLER

10—*Anulocaulis reflexus* I. M. Johnst.
160—*Leucophyllum candidum* I. M. Johnst.
341—*Leucophyllum griseum* I. M. Johnst.
547—*Eriogonum hemipterum* var. *griseum* I. M. Johnst.
731—*Petrogenia repens* I. M. Johnst.
777—*Atriplex stewartii* I. M. Johnst.
814—*Nama stewartii* I. M. Johnst.
912—*Fendlera rigida* I. M. Johnst.
944—*Gnestidium dumosum* I. M. Johnst.

1014—*Tidestromia suffruticosa* var. *coahuilana* I. M. Johnst.
1081—*Atriplex reptans* I. M. Johnst.
1258—*Gilia stewartii* I. M. Johnst.
1266—*Phacelia gypsogenia* I. M. Johnst.
1326—*Nolina micrantha* I. M. Johnst.
1359—*Perityle castillonii* I. M. Johnst.

JÖRGENSEN, P.
1126—*Astragalus joergensenii* I. M. Johnst.
1143—*Margyricarpus paucijugatus* I. M. Johnst.
1163—*Caiophora jorgensenii* I. M. Johnst.
1337—*Astragalus burkartii* I. M. Johnst.
1388—*Malvastrum catamarcense* I. M. Johnst.
1389—*Malvastrum jorgensenii* I. M. Johnst.
1868—*Heliotropium catamarcense* I. M. Johnst.
2243—*Heliotropium curassavicum* var. *argentinum* I. M. Johnst.
2299—*Sisyrinchium foliosum* I. M. Johnst.
3242—*Heliotropium tiaridioides* var. *schizocarpum* I. M. Johnst.

KANEHIRA, R.
354—*Ochroma peruviana* I. M. Johnst.
13883—*Trigonotis ciliolata* I. M. Johnst.

KARWINSKY, W. F. B. VON
646—*Heliotropium karwinskyi* I. M. Johnst.

KILLIP, E. P.
16695—*Fuchsia killipii* I. M. Johnst.
30008—*Cordia naidophila* I. M. Johnst.
34349—*Cordia hebeclada* I. M. Johnst.

KIRK, J.
3—*Tournefortia puberula* var. *kirkii* I. M. Johnst.

KLUG, G.
2262—*Cordia ripicola* I. M. Johnst.
2756—*Cordia laevior* I. M. Johnst.

KOELZ, W. N.
2946a—*Rochelia laxa* I. M. Johnst.

KRUKOFF, B. A.
5497—*Cordia lomatoloba* I. M. Johnst.
6048—*Cordia decipiens* I. M. Johnst.

LEONARD, E. C.
13851—*Heliotropium genovefae* I. M. Johnst.

LILLO, M.
3032M—*Tournefortia paniculata* var. *austrina* I. M. Johnst.
7099—*Tournefortia lilloi* I. M. Johnst.

LINDER, D. H.
158—*Sloanea amplifrons* I. M. Johnst.

LOBB, W.
s.n.—*Heliotropium lobbii* I. M. Johnst.

LOOSER, G.
739—*Erodium chilense* I. M. Johnst.
1132—*Astragalus looserii* I. M. Johnst.

LÓPEZ, F.
s.n.—*Heliotropium huascoense* I. M. Johnst.

LUDLOW, F.
5619—*Eritrichium laxum* I. M. Johnst.
12598—*Maharanga bhutanica* I. M. Johnst.

LUNDELL, C. L.
12296—*Lasiarrhenum lundellii* I. M. Johnst.
14721—*Heliotropium texanum* I. M. Johnst.

MACBRIDE, J. F.
270—*Oenothera featherstonei* Munz & I. M. Johnst.
495—*Heliotropium adenogynum* I. M. Johnst.
599—*Plagiobothrys macbridei* I. M. Johnst.
674—*Cryptantha peruviana* I. M. Johnst.
797—*Cryptantha clevelandi* var. *florosa* I. M. Johnst.
1185—*Lithospermum macbridei* I. M. Johnst.
3715—*Fuchsia velutina* I. M. Johnst.
4011—*Acalypha fulva* I. M. Johnst.
4290—*Fuchsia polyanthella* I. M. Johnst.
4541—*Fuchsia abrupta* I. M. Johnst.
5093—*Acalypha macbridei* I. M. Johnst.
5616—*Fuchsia macrophylla* I. M. Johnst.
5702—*Mabea macbridei* I. M. Johnst.
5861—*Cryptantha latifolia* I. M. Johnst.
5869—*Cryptantha macbridei* I. M. Johnst.
5950—*Oenothera laciniata* var. *limensis* I. M. Johnst.

MAGUIRE, B.
4466—*Cryptantha pterocarya* var. *stenoloba* I. M. Johnst.
14385 *Eritrichium elongatum* var. *paysonii* I. M. Johnst.

MAIRE, E. E.
s.n.—*Trigonotis muriculata* I. M. Johnst.
MALME, G. O. A.
2759—*Saccellium brasiliense* I. M. Johnst.
MANDON, G.
387—*Heliotropium mandonii* I. M. Johnst.
MARSH JR., E. G.
746—*Muhlengergia marshii* I. M. Johnst.
1579—*Selinocarpus marshii* I. M. Johnst.
2120—*Phacelia teucriifolia* I. M. Johnst.
MARTENS, P.
s.n.—*Nolana intonsa* I. M. Johnst.
MASON, H. L.
1553—*Ipomoea halierca* I. M. Johnst.
1596—*Nicotiana nesophila* I. M. Johnst.
1609—*Bursera nesopola* I. M. Johnst.
1613—*Sida nesogena* I. M. Johnst.
1614—*Hypericum eastwoodianum* I. M. Johnst.
1627—*Meliosma nesites* I. M. Johnst.
1637—*Croton masonii* I. M. Johnst.
1639—*Psidium socorrense* I. M. Johnst.
MAURICIO, H.
7946—*Lithodora moroccana* I. M. Johnst.
MCVAUGH, R.
7725—*Lithospermum parksii* I. M. Johnst.
8040—*Cryptantha crassisepala* var. *elachantha* I. M. Johnst.
10517—*Lithospermum berlandieri* I. M. Johnst.
MELION, M.
137—*Cordia fulva* I. M. Johnst.
METCALFE, O. B.
742—*Gnaphalium viridulum* I. M. Johnst.
MEXIA, Y.
1080—*Cordia inornata* I. M. Johnst.
5617—*Cordia braceliniae* I. M. Johnst.
6459—*Cordia mexiana* I. M. Johnst.
MITCHELL, E. R.
66—*Ardisia mitchellae* I. M. Johnst.
74—*Hippocratea mitchellae* I. M. Johnst.
MONTERO, G.
1161—*Astragalus monteroi* I. M. Johnst.
MOORE, H. E.
3289—*Bernardia obovata* I. M. Johnst.
MORENO, J. F. P.
530—*Plagiobothrys patagonicus* I. M. Johnst.
MORONG, T.
1282—*Plagiobothrys gracilis* var. *dimorpha* I. M. Johnst.
MUELLER, C. H.
598—*Lithospermum parksii* var. *rugulosum* I. M. Johnst.
739—*Lithospermum muelleri* I. M. Johnst.
741—*Macromeria bargigera* I. M. Johnst.
754—*Macromeria leontis* I. M. Johnst.
803—*Mahonia muelleri* I. M. Johnst.
830—*Macromeria notata* I. M. Johnst.
992—*Omphalodes erecta* I. M. Johnst.
1299—*Leucophyllum zygophyllum* I. M. Johnst.
2255—*Hackelia leonotis* I. M. Johnst.
2259—*Onosmodium dodrantale* I. M. Johnst.
2378—*Lithospermum confine* I. M. Johnst.
2380—*Lithospermum indecorum* I. M. Johnst.
MUNZ, P. A.
4271—*Penstemon munzii* I. M. Johnst.
4505—*Eriogonum fasciculatum* var. *flavoviride* Munz & I. M. Johnst.
4804—*Plagiobothrys penicillata* var. *heterocarpa* I. M. Johnst.
4930—*Ammoselinium occidentale* Munz & I. M. Johnst.
5093—*Downingia immaculata* Munz & I. M. Johnst.
6078—*Galium gabrielense* Munz & I. M. Johnst.
6187—*Scirpus bernardinus* Munz & I. M. Johnst.
6208—*Eriogonum kennedyi* var. *austromontanum* Munz & I. M. Johnst.
6684—*Malvastrum clementinum* Munz & I. M. Johnst.
6999—*Penstemon piersoni* Munz & I. M. Johnst.
7056—*Phacelia keckii* Munz & I. M. Johnst.
8468—*Alnus rhombifolia* var. *bernardina* Munz & I. M. Johnst.
11846—*Pectocarya linearis* var. *ferocula* I. M. Johnst.
MURPHY, R. C.
3219—*Solanum murphyi* I. M. Johnst.

3467—*Polyachyrus nesites* I. M. Johnst.
3472—*Periloba insularis* I. M. Johnst.

NATIVE COLLECTOR
236—*Cordia laevifrons* I. M. Johnst.

NELSON, E. W.
6924—*Cordia nelsonii* I. M. Johnst.

NORTON, E. F.
312—*Onosma wadellii* var. *brachylinum* I. M. Johnst.

OSTEN, C.
5129—*Cryptantha mendocina* I. M. Johnst.
22692—*Sisyrinchium rosengurttii* I. M. Johnst.
22693—*Sisyrinchium scariosum* I. M. Johnst.

PALMER, E.
187—*Aristolochia lassa* I. M. Johnst.
206—*Haploesthes greggii* var. *multiflora* I. M. Johnst.
551—*Cryptantha maritima* var. *pilosa* I. M. Johnst.
573—*Cordia globulifera* I. M. Johnst.
777—*Phorodendron flavum* I. M. Johnst.
799—*Gilia platyloba* I. M. Johnst.
898—*Cordia colimensis* I. M. Johnst.
2043—*Amaranthus retroflexus* var. *salicifolius* I. M. Johnst.

PARISH, W. F.
162—*Harpagonella palmeri* var. *arizonica* I. M. Johnst.

PARODI, L. R.
6664—*Alchemilla parodii* I. M. Johnst.
7514—*Geranium parodii* I. M. Johnst.
7805—*Monnina argentina* I. M. Johnst.
7821—*Wendtia miniata* I. M. Johnst.
8170a—*Hymenoxys parodii* I. M. Johnst.
8171—*Sisyrinchium platense* I. M. Johnst.
9052—*Hysterionica caurina* I. M. Johnst.

PEARCE, R.
s.n.—*Heliotropium oxylobum* I. M. Johnst.
s.n.—*Nolana pearcei* I. M. Johnst.

PECK, M. E.
826—*Misanteca peckii* I. M. Johnst.

PENNELL
10313—*Fuchsia atrorubra* I. M. Johnst.
13063—*Salpiglossis linearis* I. M. Johnst.
13066—*Cacabus flavus* I. M. Johnst.
13140—*Portulaca peruviana* I. M. Johnst.
13973—*Fuchsia chloroloba* I. M. Johnst.
14280—*Nolana thinophila* I. M. Johnst.

PHILIPPI, F.
s.n.—*Cryptantha calycotricha* I. M. Johnst.

PIERCE, W. M.
101—*Taraxacum californicum* Munz & I. M. Johnst.

PIERSON, F. W.
774—*Malvastrum gabrielense* Munz & I. M. Johnst.

PIERSON, M.
2151—*Claytonia lanceolata* var. *piersoni* Munz & I. M. Johnst.

PITTIER, H.
9252—*Fuchsia boliviana* var. *luxurians* I. M. Johnst.

POPE, CAPT.
s.n.—*Cryptantha crassisepala* var. *typica* I. M. Johnst.

PRINGLE, C. G.
s.n.—*Cryptantha nevadensis* var. *rigida* I. M. Johnst.
s.n.—*Plagiobothrys gracilis* var. *platycarpa* I. M. Johnst.
388—*Aristida dissita* I. M. Johnst.
417—*Muhlenbergia mundula* I. M. Johnst.
2537—*Cercidium macrum* I. M. Johnst.
3723—*Gilbertia eurycarpa* I. M. Johnst.
4236—*Oreomyrrhis tolucana* I. M. Johnst.
5081—*Acleisanthes nana* I. M. Johnst.
8546—*Oreomyrrhis orizabae* I. M. Johnst.
8829—*Phoebe longipes* I. M. Johnst.
12123—*Lithospermum pringlei* I. M. Johnst.

PURDIE, W.
s.n.—*Heliotropium purdiei* I. M. Johnst.

PURPUS, C. A.
325—*Euphorbia peninsularis* I. M. Johnst.
1402—*Heliotropium sessei* I. M. Johnst.
2606—*Antiphytum caespitosum* I. M. Johnst.
5542—*Plagiobothrys torreyi* var. *perplexans* I. M. Johnst.
6437—*Euphorbia podagrica* I. M. Johnst.

RAMOS, M.
44553—*Tournefortia luzonica* var. *sublucens* I. M. Johnst.

REID, J. R.
s.n.—*Onosma egregium* I. M. Johnst.

RIPLEY, H. D. D.
8748—*Cryptantha barnebyi* I. M. Johnst.
ROCK, J. F.
5256—*Trigonotis rockii* I. M. Johnst.
10439—*Microula hirsuta* I. M. Johnst.
10637—*Trigonotis contortipes* I. M. Johnst.
14511—*Microula rockii* I. M. Johnst.
17867—*Trigontis gracilipes* I. M. Johnst.
ROJAS IN PL. HASSLER PARAG.
2477—*Heliotropium pallescens* I. M. Johnst.
ROLLINS, R. C.
1715—*Cryptantha rollinsii* I. M. Johnst.
ROMERO-CASTAÑEDA, R.
3317—*Tournefortia romeroi* I. M. Johnst.
ROSE, J. N.
2360—*Nomosa rosei* I. M. Johnst.
7932—*Hackelia stricta* I. M. Johnst.
9800—*Heliotropium queretaroanum* I. M. Johnst.
12586—*Cercidium sonorae* Rose & I. M. Johnst.
19416—*Bargemontia inconspicua* I. M. Johnst.
22479—*Fuchsia spectabilis* var. *pubens* I. M. Johnst.
ROWELL JR., C. M.
3545—*Bourreria rowellii* I. M. Johnst.
RUIZ LEAL, R. A.
3343—*Astragalus ruiz-lealii* I. M. Johnst.
18837—*Heliotropium ruiz-lealii* I. M. Johnst.
18840—*Heliotropium curassavicum* var. *fruticulosum* I. M. Johnst.
ST.-HILAIRE, A. F. C. P.
B-1478—*Cordia setigera* I. M. Johnst.
ST. JOHN, H.
17486—*Heliotropium anomalum* var. *mediale* I. M. Johnst.
SAN ROMÁN
s.n.—*Cryptantha romanii* I. M. Johnst.
SCHAFFNER, W.
728—*Lithospermum obtusifolium* I. M. Johnst.
SCHIPP, W. A.
1040—*Cordia stellifera* I. M. Johnst.
SCHREITER, R.
3603—*Heliotropium schreiteri* I. M. Johnst.
SCHWEINFURTH, C. A.
2108—*Echiochilon nubicum* I. M. Johnst.
SCOLNIK, R.
1010—*Coldenia simulans* I. M. Johnst.
SELER, G. E.
847—*Lithospermum seleri* I. M. Johnst.
2893—*Lithospermum mediale* I. M. Johnst.
SELLO, F.
1564—*Cordia axillaris* I. M. Johnst.
SHARSMITH, C. W.
3354—*Hackelia sharsmithii* I. M. Johnst.
SHEPARD, R. S.
114—*Lithospermum shepardae* I. M. Johnst.
123—*Malvastrum shepardae* I. M. Johnst.
SHREVE, F.
6257—*Coldenia canescens* var. *pulchella* I. M. Johnst.
9101—*Leucophyllum virescens* I. M. Johnst.
9104—*Cnidoscolus shrevei* I. M. Johnst.
SKUTCH, A. F.
282—*Cordia costaricensis* I. M. Johnst.
288—*Sarcocca guatemalensis* I. M. Johnst.
298—*Cordia prunifolia* I. M. Johnst.
504—*Prunus guatemalensis* I. M. Johnst.
843—*Buddleia hypsophila* I. M. Johnst.
968—*Sloanea ampla* I. M. Johnst.
981—*Acalypha skutchii* I. M. Johnst.
1060—*Ilex gracilipes* I. M. Johnst.
1103—*Hackelia skutchii* I. M. Johnst.
1263—*Oreomyrrhis daucifolia* I. M. Johnst.
1320—*Ilex ampla* I. M. Johnst.
1426—*Cordia skutchii* I. M. Johnst.
1456—*Cobaea skutchii* I. M. Johnst.
1663—*Ilex quercetorum* I. M. Johnst.
1922—*Heliotropium fallax* I. M. Johnst.
2027—*Dussia grandifrons* I. M. Johnst.
2077—*Prunus skutchii* I. M. Johnst.
SMITH, H. H.
1778—*Gilbertia amplifolia* I. M. Johnst.
SMITH, L. C.
393—*Antiphytum nudicaules* I. M. Johnst.
608—*Cordia stenoclada* I. M. Johnst.
SPEGAZZINI HERB.
no. 2111—*Astragalus punae* I. M. Johnst.
SPENCER, M. F.
69—*Gnaphalium albidum* I. M. Johnst.
SPRUCE, R
5771—*Astragalus sprucei* I. M. Johnst.

STANFORD, L. R.
16—*Thamnosma stanfordii* I. M. Johnst.
73—*Pseudosmodingium anomalum* I. M. Johnst.
87—*Vauquelinia retherfordii* I. M. Johnst.
100—*Lithospermum jumulcense* I. M. Johnst.
115—*Spiraea northcraftii* I. M. Johnst.
744—*Heliotropium confertifolium* var. *coldenioides* I. M. Johnst.
STEHLE, H
2678—*Cordia nesophila* I. M. Johnst.
STEINBACH, J.
5038—*Fuchsia steinbachii* I. M. Johnst.
STEVENS, H.
483—*Onosma mertensioides* I. M. Johnst.
STEWARD, A. N.
357—*Ehretia dicksonii* var. *tilioides* I. M. Johnst.
STEWART, R. M.
823—*Dasylirion stewartii* I. M. Johnst.
957—*Dasylirion stewartii* var. *glaucum* I. M. Johnst.
1044—*Gilia calothyrsa* I. M. Johnst.
1943—*Cyphomeris gypsophiloides* var. *stewartii* I. M. Johnst.
1975—*Suaeda jacoensis* I. M. Johnst.
2241—*Phacelia infundibuliformis* var. *phanerandra* I. M. Johnst.
2653—*Sporobolus regis* I. M. Johnst.
2742—*Maurandya coccinea* I. M. Johnst.
STEWART, R. R.
10053—*Onosma kashmirica* I. M. Johnst.
19526—*Hackelia stewartii* I. M. Johnst.
STEYERMARK, J. A.
35898—*Macromeria guatemalensis* I. M. Johnst.
59003—*Cordia roraimae* I. M. Johnst.
61863—*Tournefortia gracilipes* I. M. Johnst.
STUARDO
s.n.—*Plagiobothrys foliosus* I. M. Johnst.
SUN, S. C.
877—*Trigonotis floribunda* I. M. Johnst.
TATE, G. H. H.
259—*Cordia hirta* I. M. Johnst.
TESSMAN, G.
5457—*Cordia ulei* var. *ucayaliensis* I. M. Johnst.
THESIGER, W.
s.n.—*Echiochilon thesigeri* I. M. Johnst.
THOMPSON, J. W.
7663—*Cryptantha thompsonii* I. M. Johnst.
12206—*Cryptantha subretusa* I. M. Johnst.
14129—*Cryptantha hypsophila* I. M. Johnst.
THURBER, G.
114—*Suaeda duripes* I. M. Johnst.
TONDUZ, A.
12881—*Jacaratia costaricensis* I. M. Johnst.
TOPPIN, S. M.
481—*Onosma chitralicum* I. M. Johnst.
TOWNSEND, C. H. T.
A93—*Fuchsia townsendii* I. M. Johnst.
248—*Lithospermum lasiosiphon* I. M. Johnst.
TRACY, J. P.
1744—*Cryptantha dissita* I. M. Johnst.
2094—*Cryptantha torreyana* var. *calistogae* I. M. Johnst.
TRASK, B.
s.n.—*Cryptantha traskae* I. M. Johnst.
TSANG. W. T.
11201—*Onosma tsiangii* I. M. Johnst.
21888—*Ehretia tsangii* I. M. Johnst.
TSIANG, Y.
9931—*Trigonotis cupulifera* I. M. Johnst.
11201—*Onosma tsiangii* I. M. Johnst.
TÜRCKHEIM, H. VON
11407—*Gilbertia smithiana* I. M. Johnst.
ULE
9716—*Cordia ulei* I. M. Johnst.
VARGAS C., C.
9790—*Cordia vargasii* I. M. Johnst.
VENTURI, S.
3887—*Schinus gracilipes* I. M. Johnst.
6633—*Margyricarpus inermis* I. M. Johnst.
7417—*Astragalus venturii* I. M. Johnst.
7716—*Anemone cicutifolia* I. M. Johnst.
9422—*Schinus bumelioides* I. M. Johnst.
9830—*Schinus piliferus* I. M. Johnst.
10126—*Astragalus hypsogenus* I. M. Johnst.

WANG, C.
70292—*Hackelia echinocarya* I. M. Johnst.
WARD, F. K.
492—*Onosma multiramosum* var. *mekongense* I. M. Johnst.
WATERFALL, U. T.
3993a—*Suaeda nigrescens* var. *glabra* I. M. Johnst.
WEBER, W. A.
5778—*Cryptantha weberi* I. M. Johnst.
WEBERBAUER, A.
1498—*Nolana latipes* I. M. Johnst.
1517—*Nolana lycioides* I. M. Johnst.
5385—*Nolana weberbaueri* I. M. Johnst.
6184—*Heliotropium polyanthellum* I. M. Johnst.
6213—*Cordia iguaguana* I. M. Johnst.
6332—*Heliotropium erianthum* I. M. Johnst.
7138—*Cordia varronifolia* I. M. Johnst.
7183—*Nolana pallida* I. M. Johnst.
7190—*Nolana plicata* I. M. Johnst.
7272—*Heliotropium arborescens* var. *grisellum* I. M. Johnst.
7369—*Eremocharis confinis* I. M. Johnst.
7382—*Bargemontia confinis* I. M. Johnst.
7404—*Heliotropium toratense* I. M. Johnst.
7424—*Salpiglossis albiflora* I. M. Johnst.
7455—*Bargemontia platyphylla* I. M. Johnst.
7457—*Bargemontia gracillima* I. M. Johnst.
7761—*Eremocharis dissecta* I. M. Johnst.
WEDDELL, H. A.
3454—*Cordia weddellii* I. M. Johnst.
WERDERMANN, E.
169—*Nolana werdermannii* I. M. Johnst.
728—*Nolana pallidula* I. M. Johnst.
730—*Nolana arenicola* I. M. Johnst.
919—*Porlieria chilense* I. M. Johnst.
1043—*Cryptantha werdermanniana* I. M. Johnst.
1439—*Astragalus werdermannii* I. M. Johnst.
WEST, J.
3705—*Fuchsia platypetala* I. M. Johnst.
3747—*Schinus microphyllus* I. M. Johnst.
7083—*Fuchsia austromontana* I. M. Johnst.
WHITE, S. S.
1923—*Haploesthes robusta* I. M. Johnst.
2440—*Talinum whitei* I. M. Johnst.
2469—*Aristolochia whitei* I. M. Johnst.
2650—*Eriosema laetum* I. M. Johnst.
WIGGINS, I. L.
115—*Heliotropium wigginsii* I. M. Johnst.
4305—*Pectocarya peninsularis* I. M. Johnst.
5107—*Cryptantha wigginsii* I. M. Johnst.
WILLIAMS, L. O.
10960—*Antrophora williamsii* I. M. Johnst.
WRIGHT, C.
669—*Salix taxifolia* var. *limitanea* I. M. Johnst.
1982—*Muhlenbergia abata* I. M. Johnst.
WYND, F. L.
100—*Mortonia latisepala* I. M. Johnst.
YU, T. T.
12909—*Onosma adenopus* I. M. Johnst.
14385—*Onosma fistulosum* I. M. Johnst.
16629—*Onosma dumetorum* I. M. Johnst.
17727—*Onosma microstoma* I. M. Johnst.

IVAN M. JOHNSTON'S

STUDIES IN THE BORAGINACEAE

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X. J. Arnold Arbor. 16: 1-64. 1935.
XI. J. Arnold Arbor. 16: 145-205. 1935.
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XIII. J. Arnold Arbor. 20: 375-402. 1939.
XIV. J. Arnold Arbor. 21: 48-66. 1940.
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XIX. J. Arnold Arbor. 31:172-187. 1950.
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XXI. J. Arnold Arbor. 32: 201-225, 344-368. 1951.
XXII. J. Arnold Arbor. 33:62-78. 1952.
XXIII. J. Arnold Arbor. 33: 299-363. 1952.
XXIV. J. Arnold Arbor. 34: 1-16. 1953.
XXV. J. Arnold Arbor. 34: 258-299. 1953.
XXVI. J. Arnold Arbor. 35: 1-81. 1954.
XXVII. J. Arnold Arbor. 35: 158-166. 1954.
XXVIII. J. Arnold Arbor. 37: 288-306. 1956.
XXIX. J. Arnold Arbor. 38: 255-293. 1957.
XXX. Wrightia 2: 13-22. 1959.
XXXI. Wrightia 2: 158-162. 1959.